

The Detailed Code of Regulations for the Master of Science Transition Studies Appendix 2: Description of Modules		7.36.09 Nr. 5	S. 1
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Description of modules

Code of modules	Titles of modules	Semester
Profile modules		
09-TS-MSc-K1	Economic Development and World Agricultural Markets	1
09-TS-MSc-K2	Transition and Integration Economics	1
09-TS-MSc-K3	Law in Transition	1
09-TS-MSc-K4	European Studies and Political Transformation	2
09-TS-MSc-K5	Internship	3
09-TS-MSc-K6	Empirical Research Methods	2
09-TS-MSc-K7	Transition in Practice	2
09-TS-MSc-K8	Thesis module	3
Profile module		
09-TS-MSc-P1	Economy of Agrarian Institutions	2
09-TS-MSc-P2	Nutritional Behaviour and Communication	2
09-TS-MSc-P3	Methods of Regional Analysis and Planning	2
09-TS-MSc-P4	Ressource Economics and Environmental Management	1
09-TS-MSc-P5	Production and Quality Management	1
09-TS-MSc-P6	Methods in Physical Geography	1
09-TS-MSc-P7	Risk Assessment, Ethics and Patent Law	2
09-TS-MSc-P8	Biostatistics and Bioinformatics	2

Exemplification of the code of modules:

09-TS-MSc-K... Faculty 09 – study course Transition Studies – Master of Science – Core module-Nr.

09-TS-MSc-P... Faculty 09 – study course Transition Studies – Master of Science – Profile module-Nr.

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09-TS-MSc-K1	Economic Development and World Agricultural Markets	1. Sem.	6 CP		
Title of module	Economic Development and World Agricultural Markets				
Code of module	09-TS-MSc-K1				
Faculty/ study program / Institution	Faculty of Agricultural science, Nutritional sciences and environmental management / institution of Agricultural politics and market research				
Used in StG / Sem.	Agricultural science, Nutritional sciences and environmental management / Profilemodule of all Master programs / 1.-4. Sem. (FB09-Master-MP13)				
Person in charge	Prof. Dr. P. Michael Schmitz (Prof. Dr. Roland Herrmann, PD Dr. Manfred Leupolt)				
Prerequisites	None				
Course aims	<p>Students will</p> <ul style="list-style-type: none"> - be able to analyze and systematize the problem of development in its various dimensions and to establish connections to poverty, hunger and malnutrition - be able to provide explanatory approaches to the existence of underdevelopment, poverty and food insecurity - be able to assess agricultural and developmental policy measures and problem-solving strategies - be able to understand the characteristics of world agricultural markets as well as price formation on and interdependencies between such markets - be able to explain the influence of national and international agricultural market policy on world agricultural trade - understand the relationship between agricultural trade and economic development 				
Course content	<ul style="list-style-type: none"> - underdevelopment, poverty and hunger: a survey - causes of underdevelopment, poverty and hunger - micro- and macroeconomic development strategies - role of the agricultural sector and agricultural policy in the developing world (overview and case studies) - agricultural policies of industrialized and transition countries (overview and case studies) - sustainable development: rural development, decentralisation, land use concepts (approaches and case studies presented by guest lecturers of the GTZ) - growth, transformation and development - globalization from the perspective of the developing world - features of world agricultural markets (price instability, terms of trade) - influence of national agricultural policies, agricultural development policy and international commodity agreements on world agricultural trade - activities of internat. organizations, their influence on world agricultural trade - supply, demand and pricing in major world agricultural markets 				
Class format	Lecture and practice				
Workload	180 h	Credit-Points: 6 CP			
containing	A Course		B self-study	C examination	total
	a Presence	b preperation/postprocessing, LN			
	lecture	54	100		
	practice	6	18		
	total	60	118	2	180
Examination format	Written test (2 h)				
Grading	Written test (100%)				
Compensation	---				
Repetition	Written test (2 h)				
Availability	SS, each year				
Duration (semester)	one semester				
Acceptance capacity	none				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-K2	Transition and Integration Economics		1. Sem.	6 CP	
Title of module	Transition and Integration Economics				
Code of module	09-TS-MSc-K2				
Faculty / study program / Institution	Faculty 02/ economics				
used in StG / Sem.	--				
Person in charge	Prof. Dr. Dr. h.c. Armin Bohnet, (Dr. Ivo Bischoff)				
Prerequisites	None				
Course goal	<p>The students have an understanding of:</p> <p>...concerning the theory of economic systems and institutional economics:</p> <ul style="list-style-type: none"> - the characteristics of different economic systems; in particular the functioning principles of a market economy - the role of institutions (property rights, markets, hierarchies, private and state financial systems,) for the economic performance; - of the mechanisms of the role of the state and its institutions in market economies - of the driving forces and problems of institutional change <p>...concerning the transformation of centrally planned economies:</p> <ul style="list-style-type: none"> - the main reasons for the break-down of socialist-planned economies and the low performance of some developing countries; - different strategies of transition, their strengths and disadvantages in theory; - transition processes in middle and east european countries and in south-east asia. 				
Course content	<ul style="list-style-type: none"> - Constitutional characteristics and functioning of economic systems; - New Institutional Economics (property rights theory, transaction costs theory, coordination mechanisms etc.); - Theory of origin and change of markets and hierarchies; - Efficiency criteria, the efficiency of markets and the theory of market failure - Public Choice Theory and government failure (including corruption); - Theory of institutional change; - Principles of evolutionary economics; - Functioning and failures of socialist planned economies - Strategies of transition; - Case studies: former GDR, Russia, China; 				
Class format	Lecture and practice				
Workload	180 h		Credit-Points: 6 CP		
containing:	A Course		B self-study	C examination	total
	a presence	b preperation/postprocessing, LN			
	Lecture	40	50		
	Practice	20	28		
	Total	60	78	42	180
Examination format	Term paper (40 h) and written exam (2 h)				
Grading	Term paper (50%), Written exam (50%)				
Compensation	Respective part of examination				
Repetition	Term paper and oral exam (0,5 h)				
Availability	SS, each year				
Duration	one semester				
Acceptance capacity	None				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-K3	Law in Transition		1. Sem.	6 CP	
Title of modules	Law in Transition				
Code of modules	09-TS-MSc-K3				
Faculty / study program / institution	FB01/ law				
used in StG / Sem.	--				
Person in charge	Prof. Dr. Thilo Marauhn (Prof. Dr. Christoph Benicke, Dr. Andrea Kramer)				
Prerequisites	None				
Course goal	Students will <ul style="list-style-type: none"> - have a basic understanding of the role of law and legal systems in economic and social change - be familiar with the main sources and principles of international economic law - be familiar with the most popular regimes of international commercial arbitration - understand the importance of national law for economic and social change - be able to explain the concepts of rule of law and governance - comprehend the role of the judiciary in transition - be able to evaluate legal reforms 				
Course content	International Economic Law (Prof. Marauhn) <ul style="list-style-type: none"> - WTO Law - International Financial Institutions Transnational Commercial Law (Prof. Benicke) <ul style="list-style-type: none"> - Transnational Commercial Transactions - Transnational Commercial Arbitration Law, Governance and Development (Dr. Kramer) <ul style="list-style-type: none"> - Rule of law - Judicial reform - Evaluating legal reforms 				
Class format	Lecture and practice				
Workload	180 h		Credit-Points: 6 CP		
containing:	A Course		B self-study	C examination	total
	a Presence	b preperation postprocessing/ LN	/		
	Lecture	30	45		
	Practice	30	30		
	Total	60	75	45	180
Examination format	Essay (40 h), presentation (5 h), participation				
Grade of module	Essay (70%), presentation (20 %), oral participation (10%)				
Form Ausgleichspr.	Respective part of examination				
Form Repetition	Oral exam				
Availability	SS, each year				
Duration	one semester				
Acceptance capacity	none				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-K3	European Studies and Political Transformation		2. Sem.	6 CP	
Title of module	European Studies and Political Transformation: Domestic Processes and International Impact				
Code of module	09-TS-MSc-K4				
Faculty / study program / institution	Faculty 03/political science/ department of politics				
used in StG / Sem.	Political and social science: Diplom/Magister and Staatsexamen (BA- und MA- study programs to be developed)				
Person in Charge	Prof. Dr. Reimund Seidelmann, (Prof. Dr. Hanne-Margret Birckenbach, Dr. Kirsten Westphal, Herr Vasilache)				
Prerequisites	None				
Course goals	The students will have acquired an overview about the current theoretical and methodological debate on political transformation studies. It introduces the relevant international actors involving in transformation activities (such as the EU, the OSCE and the Council of Europe), their policies towards transformation and their impact. Comparative case studies that put particular emphasis on emerging norms, standards, skills and ordering principles help to analyse and evaluate processes of transformation in their global, regional and national dimensions.				
Content of module	<ul style="list-style-type: none"> - Theoretical concepts and methodological approaches to political transformation - Structure, dynamics and patterns of external involvement in nation-states in transformation - National and regional concepts of political transformation - Interrelation between internal and external transformation dynamics - Nexus between transformation and transnationalization - Comparative case studies on success, failure and challenges 				
Class format	2 seminars / preseminars				
Workload	180 h		Credit-Points: 6 CP		
containing:	A Course		B self-study	C examination	total
	a Presence	b preparation/ postprocessing LN			
	Lecture				
	Seminar	60	49	30	
	total	60	49	30	41
Examination format	1 presentation per seminar (0,5 h), 1 term paper (40 h), either 1 oral (0,5 h) or 1 written exam (2 h)				
Grade of module	Presentation (20%); term paper (40%); oral or written exam (40%)				
Compensation	each part of the exam				
Repetition	term paper and oral exam (je 0,5 h), Note der Präsentation bleibt bestehen				
Availability	SS, each year				
Duration	one Semester				
Acceptance capacity	None				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-K5	Internship	3. Sem.	6 CP
Title of module	Internship		
Code of module	09-TS-MSc-K5		
Faculty / study program / institution	Faculty Agricultural science, nutritional science and environmental management		
used in StG / Sem.	--		
Person in charge	Head of the board of internship, faculty 09 (administrative) as well as managing director of ZEU (coordination, content)		
Prerequisites.	None		
Course goal	The students have acquired essential practical experience on activities and operations of enterprises and/or institutions which are related to transition countries or are useful for the transition process. The students understand the main structures and functionalities of those enterprises/ institutions and are able to link scientific knowledge to its practical application.		
Course content	The internship takes place either at institutions of international development cooperation, national or international institutions and organisations, governmental bodies, private companies, or research institutions. The content of the internship depends on the chosen enterprise/ institution and has to be related to any of the modules of the study course.		
Class format	Lecture as preparation and postprocessing, internship of at least 6 weeks in approved enterprises / institutions, a report about the internship has to be written		
Workload	180 h	Credit-Points: 6 CP	
containing:	A Courses		B self-study
	a Presence	b preparation / postprocessing, LN	C examination
	Lecture	1,5	
	Internship	158	
	Total	159,5	20,5
total			180
Examination format	Certification of internship, Report (20 h), oral exam (0,5 h)		
Grading	Certification (prerequisite for exam), report (30%), oral exam (70%)		
Compensation	Respective part of examination		
Repetition	oral exam only, Grade of report persists		
Availability	SS, each year		
Duration	4 weeks		
Acceptance capacity	None		
Language of instruction	English		
Notes	It is recommended to accomplish a traineeship between WS and SS (calendar week 10-15). Duration of traineeship is not less than 4 weeks. The student has to organize a proper Traineeship by himself/herself. The ZEU supports the student in finding a traineeship. For further instructions see array of internships within the study program Transition Studies (Appendix 3).		

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09-TS-MSc-K6	Empirical Research Methods		2. Sem.	6 CP		
Title of module	Empirical Research Methods					
Code of module	09-TS-MSc-K6					
Faculty / study program / Institution	Faculty of agricultural science, nutritional science and environmental management					
used in StG / Sem.	--					
Person in charge	Prof. Dr. P. Michael Schmitz Teacher: Prof. Dr. Ernst-August Nuppenau, Prof. Dr. Roland Herrmann, Prof. Dr. P. Michael Schmitz, Prof. Dr. Ingrid-Ute Leonhäuser, Prof. Dr. Hermann Boland, Prof. Dr. Rainer Kühn					
Prerequisites.	None					
Course goals	The students have acquired knowledge of general principles of various qualitative and quantitative research methods as well as evaluation research. They will be able to understand the application of various methods with regard to research objectives.					
Course content	<ul style="list-style-type: none"> - mathematical basic principles (e.g. derivation, matrices) - mathematical production economics (e.g. cost function) - correlation and causality - basic approach of econometrics - basic introduction to simple and multiple regression analysis - principles and extensions of cost-benefit analysis - principles of applied statistics and grounded theory - collecting and analysing panel data - designing surveys, interviews, questionnaires - qualitative data collection technique - principles of strategic management - game theory - organisation theory 					
Class format	Lecture and practice					
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	30	36	20		
	Total	60	96	20	4	180
Examination format	Two partial written exams (each 2 h)					
Grading	1. written exam (50%), 2. written exam (50%)					
Compensation	Respective part of examination					
Repetition	Oral exam (0,5 h) each part					
Availability	WS, each year					
Duration	one Semester					
Acceptance capacity	None					
Language of instruction	English					
Notes	Information concerning modules and literature: see board of information / Date: see university calendar					

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09-TS-MSc-K7	Transition in Practice		2. Sem.	6 CP	
Title of module	Transition in Practice				
Code of module	09-TS-MSc-K7				
Faculty/study program/institution used in StG / Sem.	Faculty agricultural science, nutritional science and environmental management				
Person in charge	Managing director of ZEU				
Prerequisites	None				
Course goal	The students have gained knowledge about the practical work with and within transition countries. They understand the problems as interdisciplinary and have been introduced to practical approaches to overcome the problems.				
Course content	<p>The module takes place in form of a seminar including guest presentations of practitioners working in the field of transition: development agencies, consultancies, governmental bodies, enterprises, research institutions. Furthermore the students themselves will prepare case studies on development projects in transition countries.</p> <p>The module will focus on:</p> <ul style="list-style-type: none"> - development projects in transition countries - current research and its impact on development work in transition countries - governmental approaches of transition 				
Class format	Seminar (presentations)				
Workload	180 h		Credit-Points: 6 CP		
containing:	A Course		B self-study	C examination	total
	a Presence	b preperation/postprocessing, LN			
	Lecture				
	Seminar	60	79,5		
	total	60	79,5	40,5	180
Examination format	Term paper(40 h) and presentation (0,5 h)				
Grading	Term paper (80%), presentation (20%)				
Compensation	Respective part of examination				
Repetition	Term paper and oral exam (0,5 h)				
Availability	WS, each year				
Duration	one Semester				
Acceptance capacity	none				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-K8	Thesis Module		3. Sem.	24 CP	
Title of module	Thesis Module				
Code of module	09-TS-MSc-K8				
Faculty/study program/institution used in StG / Sem.	All institutions and professors who take part of the study program „Transition Studies“				
Person in charge	--				
Prerequisites	Successful graduation of at least 5 of 7 modules of the Master program „Transition Studies“				
Course goals	Students have the competence to attend to a concrete problem regarding transition countries. They are able to address and analyse the problem by using scientific methods. They are able to write it in a scientific way and to present and defend the results.				
Course content	<p>The topic of the thesis has to be related to one of the taken modules of the study and has to be supervised by at least one professor of one of those modules.</p> <ul style="list-style-type: none"> - Conception of a work plan - Independent study of related literature and methodology - Application of methodology - Compilation of the thesis - Presentation of results - Colloquium 				
Class format	Lecture as instruction for scientific working, Tutorial (mentoring), writing of final thesis, preparation and realisation of defence (presentation and colloquium)				
Workload containing:	720 h	Credit-Points: 24 CP			
		A Course	B self-study	C examination	total
		a Presence	b preparation/postprocessing, LN		
		Lecture	2	2	
		Tutorial	4	20	
		Thesis		670	
		Defence		21	1
		Total	6	22	691
				1	720
Examination format	Final thesis, oral defence: presentation (0,5 h) and colloquium (0,5 h)				
Grading	Thesis (70%), oral defence (30%)				
Compensation	--				
Repetition	Like examinations of module				
Availability	SS				
Duration	one semester				
Acceptance capacity	none				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-P1	Economy of Agrarian Institutions		2. Sem.	6 CP	
Title of module	Economy of Agrarian Institutions				
Code of module	09-TS-MSc-P1				
Faculty/study program/institution	FB Agrarwissenschaften, Ökotropologie und Umweltmanagement / Wirtschafts- und Sozialwissenschaften/ Institut für Agrarpolitik und Marktforschung				
used in StG / Sem.	Agricultural science, nutrition and environmental management / profilemodule of the Master program of all Studienrichtungen / 1.-4. Sem. (FB09-Master-MP 44)				
Person in charge	Prof. Dr. Ernst-August Nuppenau				
Prerequisites	none				
Course goal	<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 				
Course 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 				
Class format	Lecture and Seminar				
Workload	180 h		Credit-Points: 6 CP		
containing:	A course		B self-study	C examination	total
	a Presence	b preparation/postprocessing, LN			
	Lecture 40	39			
	Seminar 20		40		
	Total 60	39	40	41	180
Examination format	Term paper (40 h), presentation (0,5 h), oral exam (0,5 h)				
Grading	Term paper (30%), presentation (20%), oral exam (50%)				
Compensation	Respective part of examination				
Repetition	term paper and oral exam (0,5 h), grade of presentation persists				
Availability	WS, each year				
Duration	one Semester				
Acceptance capacity	30 Persons				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: see university calendar				

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09-TS-MSc-P2	Nutritional Behaviour and Communication		2. Sem.	6 CP	
Title of module	Nutritional Behaviour and Communication				
Code of module	09-TS-MSc-P2				
Faculty/study program/institution used in StG / Sem.	FB agricultural science, nutrition and environmental science / Faculty of nutritional science / Faculty of Agricultural sociology and consulting field				
Person in charge:	Prof. Dr. Ingrid-Ute Leonhäuser (Prof. Dr. Hermann Boland)				
Prerequisites	none				
Course goal	<p>Students will...</p> <ul style="list-style-type: none"> - be able to frame the socioeconomic, psychosocial and cultural determinants of behaviour in the context of eating and drinking by means of theoretical models and empirical studies - be able to distinguish the various disciplinary perspectives and operational approaches of nutritional sociology, nutritional psychology and socioeconomic behavioural research - recognise the behaviour-oriented communication and counselling approach based on criteria of the behavioural sciences - be able to apply targeted methods of nutrition promotion and evaluate their effectiveness - have a command of theory and practice in behavioural analysis - be able to classify process models of counselling, supervision and therapy - have trained skills of conducting conversations under complex circumstances 				
Course content	<ul style="list-style-type: none"> - food consumption data household-budgets, studies in nutritional epidemiology - nutritional habits, eating behaviour and eating disorders - information and knowledge as cognitive determinants - behavioural analysis and behavioural modification - nutrition as a psychosocial phenomenon: approaches to a theoretical framework for behavioural counselling - counselling, supervision, therapy - training in handling difficult situations 				
Class format	Lecture and Seminar				
Workload	180 h		Credit-Points: 6 CP		
containing:	A Course		B self-study	C examination	total
	a Presence	b preparation/postprocessing, LN			
	Lecture	50	38		
	Seminar	10	40		
	total	60	78	42	180
Examination format	Written exam (2 h) and term paper (40 h)				
Grading	Written exam (75%) and term paper (25%)				
Competence	Respective part of examination				
Repetition	only written exam (2 h), grade of term paper persists				
Availability	WS, each year				
Duration	one Semester				
Acceptance capacity	max. 20				
Language of instruction	English				
Notes	Information concerning modules and literature: see board of information / Date: Friday 8.00-12.00 a.m.				

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09-TS-MSc-P3	Methods of Regional Analysis and Planning		2. Sem.	6 CP	
Title of modules	Methods of Regional Analysis and Planning				
Code of modules	09-TS-MSc-P3				
Department/ Program/ Institution	Dept. of Agricultural Science, Nutritional Sciences, and Environmental Management / Institution of Economics of Agriculture- and Nutritional Science				
Used in StG / Sem.	Agriculture Science, Nutritional Sciences, and Environmental Management/ core module of Master program in the study field of Agricultural Economic and Management as well as Environmental- and Resource Management / 3. and 1. Sem. respectively (Dept.09-Master-MKA 07/ MKU 01)				
Person in charge	Prof. Dr. Siegfried Bauer				
Prerequisites	None				
Course goals	<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 				
Course contents	<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 				
Kinds of teaching	Lecture and Seminar				
Workload/ hours .	180 h		Credit-Points: 6 CP		
Containing:	A course		B self- study	C examination	total
	a Presence	b preperation/postprocessing, LN			
	Lecture	40	50		
	Seminar	20	28		
	Total	60	78	42	180
Examination format	Written Exam (2 h), Term Paper (40 h)				
Grading	Written Exam (80%), Term Paper (20%)				
Compensation	Respective part of exam				
Repetition	only of written exam (2 h), Term Paper cannot be re-done/ Grade of Term Paper cannot be improved				
Availability, Duration (semester)	WS, yearly 1 Semester				
Acceptance capacity	none				
Language of instruction	English				
Note	Tutoring and Literature: look at semester- board / Date: Thursday 2-6 pm				

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09-TS-MSc-P5	Resource Economics and Environmental Management	3. Sem.	6 CP			
Title of module	Resource Economics and Environmental Management					
Code of module	09-TS-MSc-P5					
Department/ Program/ Institution	Study Dept. Agricultural Sciences, Nutritional Sciences, and Environmental Management / business- and social sciences/ Institution for Agricultural Politics and Market Research					
Used in StG / Sem.	agricultural sciences, nutritional sciences, and environmental management / profile module of all master studies (all study fields) / 1.-4. Sem. (Dept09-Master-MP 47)					
Person in charge	Prof. Dr. Ernst-August Nuppenau					
Prerequisites	None					
Course goal	<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. 					
Course 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 					
Kinds of teaching	lecture (2/3) and seminar (1/3)					
Workload/ hours	180 h	Credit-Points: 6 CP				
Containing:	A course		B self-study	C examination	total	
	a Presence	b preparation/postprocessing, LN				
	Lecture	40	60			
	Seminar	20	27,5	30		
	Total	60	87,5	30	2,5	180
Examination format	presentation (0,5 h), written exam (2 h)					
Grading	presentation (30%), written exam (70%)					
Compensation	respective part of examination					
Repetition	only written exam (2 h)					
Availability	SS, yearly					
Duration (semester)	1 Semester					
Capacity of entry	max. 30 persons					
Language of instruction	English					
Note	Tutoring and Literature: look at semester board / Date: look at university calendar					

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09-TS-MSc-P6	Production and Quality Management		3. Sem.	6 CP	
Title of module	Production and Quality Management				
Code of module	09-TS-MSc-P6				
Department/ Program/ Institution	Dept. Agricultural Sciences, Nutritional Sciences and Environmental Management / professorship for process technology				
Used in StG / Sem.	Agricultural sciences, nutritional sciences and environmental management / profile module of all master studies (all study fields) / 1.-4. Sem. (Dept.09-Master-MP 14)				
Person in charge	Prof. Dr. Elmar Schlich				
Prerequisites	none				
Course goal	<p>Students will</p> <ul style="list-style-type: none"> - know the scientific foundations of production and quality management - have knowledge of the principal elements of quality management, risk management in accordance with HACCP, and environmental management in line with applicable standards - be able to scientifically evaluate appropriate management systems, implement them in practice, and further develop existing systems - have knowledge of the creation and application of quality-management systems, quality audits, quality-management handbooks, HACCP-compliant risk-management systems in the food industry, environmental-management systems with life cycle assessment, product audits, process audits, purchase evaluation and interface evaluations, including the fields of packaging and disposal technology as well as associated legal foundations 				
Course content	<p>The module content is delivered not only through lectures but very concrete in form of an excursion to several enterprises of the food industry and retail trade. The excursion is accompanied by presentations of external guests.</p> <ul style="list-style-type: none"> - quality-management systems according to ISO 9000:2000 standards - HACCP according to European and German national regulation and legislation certification in accordance to producer and or retailer standards (e.g. EUREPGAP; IFS; BRC, QS etc.) - ecoauditing according to ISO 14000 standards - life cycle assessment (LCA) according to ISO 14040 standards - integrated management systems (IMS) - packaging and disposal technology according to regulations governing packaging and recycling management 				
Kinds of teaching	practice for advanced students: lecture as instruction, presentation, excursion				
Workload/ hours	180 h		Credit-Points: 6 CP		
Containing:	A course		B self-study	C examination	total
	a Presence	b preperation/postprocessing, LN			
	Lecture	30	40		
	Practice & Excursion	30	40	39	
	Total	60	80	39	1
Examination format	presentation (0,5 h), oral exam (0,5 h)				
Grading	presentation (50%), oral exam (50%)				
Compensation	respective part of examination				
Repetition	only oral exam (0,5 h), grade of presentation persists				
Availability	SS, yearly				
Duration (semester)	1 Semester				
Capacity of entry	max. 30 persons				
Language of instruction	English				
Note	Tutoring and Literature: look at semester board/ Date: Thursday 2-6 pm				

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09-TS-MSc-P7	Methods in Physical Geography		3. Sem.	6 CP	
Title of module	Methods in Physical Geography: Environmental and Natural Hazard Studies				
Code of module	09-TS-MSc-P7				
Department/ Program/ Institution	Dept. 07/ mathematics and informatics, physics, geography/ Institution for Geography				
Used in StG / Sem.	--				
Person in charge	Prof. Lorenz King (Dr. Thomas Christiansen)				
Prerequisites	none				
Course goal	<p>Methods in Physical Geography (climatology, hydrology, geophysics) – Prof. King: Students will:</p> <ul style="list-style-type: none"> - have an overview over methods of registering climatological & hydrological data - have foundational knowledge of geophysical methods used to research subsurface conditions relevant for natural resources and hazards (groundwater, slope instabilities) - be able to assess the collected climatological, hydrological and geophysical data - be able to understand the potential and limitations of these methods <p>Geographic Information Systems and Remote Sensing Methods and Techniques – Dr. Christiansen: Students will:</p> <ul style="list-style-type: none"> - receive a general overview over the principles of geographic information systems (GIS) and remote sensing (RS) - be able to assess the relevance and suitability of different geographical and remote sensing data - be able to understand potential and limitations of various GIS- and RS-methods 				
Course content	<p>Methods in Physical Geography (climatology, hydrology, geophysics) – Prof. King:</p> <ul style="list-style-type: none"> - nature and elements of atmosphere and hydrosphere - climatological and hydrological data sources and data acquisition - limitations and errors of climatological and hydrological data acquisition - nature and elements of lithosphere - introduction to geophysical prospecting (seismic, geoelectric, georadar) - limitations and errors of geophysical data acquisition <p>Geographic Information Systems and Remote Sensing Methods and Techniques – Dr. Christiansen:</p> <ul style="list-style-type: none"> - principles and nature of geographic and remote sensing data - data sources and data acquisition - general principles and methods of geographic information systems - general principles and methods of RS systems - application examples for remote sensing 				
Class format	Lecture and Practice				
Workload	180 h		Credit-Points: 6 CP		
Containing:	A course		B self- study	C examination	total
	a Presence	b preparation/postprocessing, LN			
	Lecture	40	70		
	Practice	20	30	16	
	Total	60	100	16	4
Examination format	2 written exams (each 2 h)				
Grading	1. written exam (50%), 2. written exam (50%)				
Compensation	respective part of written exam(s)				
Repetition	written exam (4 h)				
Availability	SS, each year				
Duration (semester)	block course				
Acceptance capacity	no limitation				
Language of instruction	English				
Note	Tutoring and Literature: look at semester board / Date: look at university calendar				

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09-TS-MSc-P8	Risk Assessment, Ethics & Patent Law		2. Sem.	6 CP	
Title of module	Risk Assessment, Ethics and Patent Law				
Code of module	09-TS-MSc-P8				
Department/ Program/ Institution	Dept. Agricultural Sciences, Nutritional Sciences and Environmental Management / Institution for Phytopathology and Applied Zoology				
Used in StG / Sem.	agricultural sciences, nutritional sciences and environmental management / core module of master study of agrobiotechnology / 3. Sem. (Dept.09-MKAB 3)				
Person in charge	Prof. Dr. Karl-Heinz Kogel				
Prerequisites	none				
Course goal	<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 - have fundamental knowledge of the structure of the authorizing agencies for plant protection products - be able to explain structure and tasks of 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 - be able to understand the evaluation and authorisation procedures for plant protection products according to European Union Council Directives 				
Course content	<p>The module contains specific work on a case study which is the application of bio safety research of transgenic plants on open land tests at the university. The aspect of patent law and ethics is additionally covered by 2 guest lectures from associations and/or companies.</p> <ul style="list-style-type: none"> - Development of guidelines for the risk management of plant protection products - Evaluation of suitability of plant protection products - Tasks & structure of the EU Ethic and Food Safety Authority Commission - Tasks & structure of the Fed. Inst. for Consumer Protection & Food Security BVL - Tasks & structure of the Fed. Institute for Risk Assessment (BfR), Environmental Agency (UBA), Biological Research Centre for Agriculture and Forestry (BBA) - Tasks/ structure European & Mediterranean Plant Protection Organiz. (EPPO) - Assessment of different strategies in development of pest resistance of cultivated plants: Gene technology vs. plant breeding - Ecotoxicological 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 transgenic plants and food, on environmental problems of agriculture, and on renewable energies - TA and SD studies on agriculture, food chains and food - ways to deal with uncertainty, lack of knowledge, different values and interests - ways to develop different options for action - Terms and conditions for organic farming and Integrated Pest Management - Release and marketing of genetically modified organism 				
Class format	Lecture, Seminar and Practice				
Workload	180 h		Credit-Points: 6 CP		
Containing:		A course	B self- study	C examination	total
		a Presence	b preparation/postprocessing, LN		
	Lecture	30	40		
	Practice & Seminar	30	47,5	30	
	Total	60	87,5	30	2,5 180
Examination format	written exam (2 h) and presentation (0,5 h)				
Grading	written exam (50%), presentation (50%)				
Compensation	respective part of examination				
Repetition	only oral exam (0,5 h), grade of presentation persists				
Availability	SS, yearly				
Duration	1 Semester				
Acceptance capacity	no limitation				
Language of instruction	English				
Note	Tutoring and Literature: look at semester board/ Date: look at university calendar				

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09-TS-MSc-P9	Biostatistics and Bioinformatics		3. Sem.	6 CP			
Title of module	Biostatistics and Bioinformatics						
Code of module	09-TS-MSc-P9						
Department/ Study Program/ Institution	Dept. Agricultural Sciences, Nutritional Sciences, and Environmental Management/ Interdisciplinary Research Center IFZ/ Institution for Biometry und Population Genetics						
Used in StG / Sem.	agricultural sciences, nutritional sciences and environmental management / core module of master studies of agro biotechnology / 1. Sem. (Dept.09-Master-MKAB 1)						
Person in charge	Prof. Dr. Wolfgang Köhler						
Prerequisites	basic knowledge of mathematics and statistics						
Course goal	Students will - be able to plan experiments statistically (experimental design) - be familiar with descriptive and inferential statistical methods - be able to handle large data sets in Molecular Biology - be familiar with standard procedures in Bioinformatics						
Course content	- Uni- and multivariate statistical analysis - Use of statistical program packages - Databases and software tools in Molecular Biology - Sequence alignments - Microarray expression analysis						
Class format	Lecture and Practice (with computer)						
Workload	180 h		Credit-Points: 6 CP				
Containing:		A course		B self-study	C examination	Total	
		a Presence	B preperation/postprocessing, LN				
		Lecture	30	48			
		Practice	30			60	
		Total	60	48		60	12
Examination format	3 weekly graded exercises (9 h), 1 PC-Test (1 h), written exam (2 h)						
Grading	3 weekly graded exercises (10%), PC-Test (20%), written exam (70%)						
Compensation	respective part of examination						
Repetition	only written exam (2 h)						
Availability	WS, each year						
Duration	1 Semester						
Acceptance capacity	max. 30						
Language of instruction	English						
Note	Tutoring and Literature: look at semester board/ Date: look at university calendar						