

Siebter Beschluss zur Änderung der Speziellen Ordnung für den Masterstudiengang "Global Change – Ecosystem Science and Policy" des Fachbereichs 08 – Biologie und Chemie – der Justus-Liebig-Universität Gießen und der School of Biology and Environmental Science des University College Dublin

Aufgrund von § 44 Abs. 1 des Hessischen Hochschulgesetzes vom 14. Dezember 2009 hat der Fachbereichsrat des Fachbereichs 08 – Biologie und Chemie – am 31.10.2018 die nachstehenden Änderungen beschlossen

Art. 1 Änderungen

Die Spezielle Ordnung für Masterstudiengang "Global Change – Ecosystem Science and Policy" vom 27.07.2012, zuletzt geändert durch Beschluss vom 23.11.2017, wird wie folgt geändert:

1. Die Anlage 2 - Modulbeschreibungen - wird wie folgt geändert:

a) Das Modul LAW30440 wird wie folgt geändert:

LAW30440	Environmental Law and Policy	1.Sem.	5 CP
Title of module	Environmental Law and Policy		
Code of module	LAW30440		
Faculty / study program / Institution	UCD, Sutherland School of Law		
used in StG / Sem.	1 Sem., MSc Global Change		
Person in charge	Prof Suzanne Kingston & Dr Andrew Jackson		
Prerequisites	None		
Course aims	On completion of this module, diligent students should 1. Have a good overview of the principles, techniques mental law at national, European and international leve	and regulatory	framework of environ-

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	2. Have an in-	depth knowledge	e of current princ	ipal ch	allenges in en	vironmental law	and be able	
		a high level of de	-	-	_			
	3. Be able to	3. Be able to critically assess potential ways in which environmental law might be changed to						
		ronmental proted	-			_	•	
	4. Have a good understanding of environmental law in practice.							
Course content	4. Have a good understanding of environmental law in practice. Environmental law forms a fundamental part of how our society interacts with its natural surroundings. This course comprises a practical, in-depth examination of environmental law, with a focus on European and international perspectives. It will trace the development of EU and international environmental law to date and will analyse the legal principles applied to environmental protection. Students are introduced to various theoretical bases for environmental regulation, including rights-based approaches, justice-based approaches, as well as the 'law and economics' movement. Having taken this module, students have a good grounding in understanding that law frames, constrains, and delivers policy. The rule of law acts as a check on power, whilst fully respecting the separation of powers. Students will understand that much policy is delivered by the law, and will be aware that a good understanding of the law is essential to understanding environmental policy fully in any given area.							
Class format	Seminar							
Workload	120 h			Cred	it Points: 5 Cl)		
containing:		A Course		•	B Self-study	C examination	total	
		a presence	b preparation processing, LN	n/post				
	Seminar	24	96				120	
	Total	24	96				120	
Examination format Grading Repetition	Essay (60 %), Presentation (30 %), Participation in class during presentation weeks (10 %)							
Availability	Winter, each	=						
Duration	one semester	•						
Acceptance capacity	None							
Language of instruc- tion	English							
Literature								
Notes								

b) Das Modul BIOL40140 wird wie folgt geändert:

BIOL40140	Science and Policy	1.Sem.	5 CP
Title of module	Science and Policy		
Code of module	BIOL40140		
Faculty / study program / Institution	UCD, School Of Biology & Environment Science		
used in StG / Sem.	1 Sem., MSc Global Change		

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Person in charge	Dr Tamara Hochstrasser & Dr Adam Kane						
Prerequisites	None						
Course aims Course content	Under tem re vironr Identi tions l ciding Have e tion manticij	in outline of horstand how a meflecting the differential problem fy relevant know the tween perspection action experienced horodels) implemented outcomes	w scientific k ultitude of qual ferent perspund wledge and usectives and to wasimulation ented in the conce a conce	nowled uestion ectives use an i o formu on mod open se eptual f	dge is acquired as can be aske of experts an integrative appulate a conception of the conception of th	d about a completed non-experts of proach to show otual framework ar agent-based seen defined.	n an en- connec- for de- simula- elp to
Course content	paths of develor our environme ciplinary approare not trained is hampered by within which so work of scientificable to articulate knowledge about and non-expert Through the infollows everybouring of the probating of the probating and develop action. Reflection Reflection Discussion Discussion these system based decidents.	opment can be ont is taken. The pach" is dialoguate to enter such by a lack of reflicientists conducts so as to lear ate more clear but the world is the world is the world in the dy involved in the dy involved in the lem and anticipal on the used to conduct the capacity. This should can be used to conduct the capacity on communication of the notion interdisciplination of the scientification of the properties in the futurision-making)	identified de e foundation de between e a dialogue ar ection on ur cut their work. In about our cut their work what the signified gained will he multitude of ese different he dialogue to the	mands of this experts and their anderlyin In this experts own val scientif all to perspe o deve an cons s and e uncerta ramewo ues influ frame cation d scien ex syste uncerta	that a new approach new approach and non-expressive paragraph values and module, we always and disciplic method investablish a diapetives to bear ectives, the trailop a shared, requences of a case the decisionaties about tork for learning commovers (or mentand stakehold tific facts and terms and how the inty and its improved a modelling to the ling exercise).	proach to learn of "often called a erts. However, ticipation in the disciplinary framework of the problem on the problem on the problem on making. Furthe anticipated of a over time. In model) and it ler dialogues disciplinary framework of the problem on making. Furthe anticipated of a over time. In model) and it ler dialogues disciplinary framework of anticipate dynamication for expectations	ing about transdis- scientists dialogue meworks ect on the rks. Being scientific er experts at hand. approach derstand- roblem in hermore, utcomes, es im- meworks namics of vidence-
Class format	Lecture and pro			, - 1-1-	P		
Workload	125 h			Credi	t-Points: 5 CP		
containing:		A Course a presence	b preparatio processing, L	n/post	B Self-study	C examination	total
	conversation class	12	processing, L	14	43		55
	on-line learn- ing				20		20

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	Specified Learning Activi- ties	50				50
	Total	62		63		125
Examination format	Oral examination	n (25 %), Cont	inuous assessment:	3 short essays	and modelling	project
Grading	(65 %), Attende	nce and engag	ement (10 %)			
Repetition						
Availability	Winter, each ye	ar				
Duration	one semester					
Acceptance capacity	20					
Language of instruction	English					
Literature						
Notes						

c) Das Modul ENVB40040 wird wie folgt geändert:

ENVB40040	Environmental Impact Assessment	1.Sem.	5 CP
Title of conducts	Forting works I have at Assessment		
Title of module	Environmental Impact Assessment		
Code of module	ENVB40040		
Faculty / study program	UCD, School of Biology and Environmental Science		
/ Institution			
used in StG / Sem.	1 Sem., MSc Global Change		
Person in charge	Dr Florence Renou-Wilson		
Prerequisites	None		
Course aims	Students should gain an intellectual feel for the ra	ationale, legal and pro	cedural ap-
	proaches to environmental impact assessment process	edures and decision-ma	iking – plus
	practically orientated exposure to the 'real-world' app	proaches used in assessi	ng environ-
	mental impacts. Specifically, the module was develop	oed for the students to	achieve the
	following learning objectives:		
	1) Background context is provided on the philosophy	v and development of t	he Environ-
	mental Impact Assessment (EIA) process in North Am	•	
	it in a broader framework of approaches to environm	•	a arra prace
		_	
	2) The general legal framework for EIA is presented	•	
	in particular; critically appraising the relative merits a countries.	nd flaws of EIA systems	in different
	3) The general stages of assessment are identified and	d explored with reference	ce to appro-
	priate tools and methodologies: screening, scoping	, impact identification;	mitigation,
	monitoring, follow-up and process audit.		G ,
	4) Critical discussions on the difficulties of assessing	'significance' of impact	s as well as
	designing appropriate monitoring surveys.		
	5) The procedures appropriate to each level in the	conceptual planning hi	erarchy are
	compared and contrasted. At policy assessment leve	el: Strategic Environme	ntal Assess-
	ment (SEA) of plans and programmes; At project asses	ssment level: Environme	ntal Impact
	Assessment (EIA) and Appropriate Assessment (AA);		-
	Management Systems (EMS); Life Cycle Analysis (LC/	• •	
	and Control (IPPC).	-,,	
	and control (ii i cj.		

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This module o	utlines the devel	opment and r	ohilos	ophy of Impa	ct Assessment P	rocedure
		•				
	_					
-	•	•			•	
thesis and diss	emination of rel	evant informa	ation.	We compare	lAP processes i	n a range
of countries ar	nd discuss the pr	os and cons o	of diffe	erent approad	ches. The course	e includes
a practical mod	ck scoping EIA ex	ercise where r	metho	dologies (esp	ecially used for	biological
disciplines) to	assess and moni	tor environme	ental d	changes are r	eviewed. Throu	ghout the
course, we cor	nsider the differe	nt careers ava	ailable	in the field o	of impact assessr	ment pro-
cedures in gen	eral and their sp	heres of influ	ence.	Case studies	and simulation	exercises
will be utilised	I. One lecture is	given by curr	ent e	cologists fron	n RPS, one of th	ne largest
consultancies	in Ireland.					
Lecture and pr	actice					
125h Credit-Points: 5 CP						
125h			Cred	lit-Points: 5 C	Р	
125h	A Course			lit-Points: 5 C B Self-study	P C examination	total
125h	A Course A presence	b preparation	n/post		1	total
	A presence	b preparation processing, LI	n/post	B Self-study	1	
Lectures	A presence		n/post		1	95
Lectures Seminar	A presence 9 3		n/post	B Self-study	1	95
Lectures Seminar Workshop	A presence		n/post	B Self-study	1	95
Lectures Seminar	A presence 9 3 5		n/post	B Self-study	1	95 3 5
Lectures Seminar Workshop Specified	A presence 9 3 5		n/post	B Self-study	1	95 3 5
Lectures Seminar Workshop Specified Learning Activ-	A presence 9 3 5		n/post	B Self-study	1	95 3 5
Lectures Seminar Workshop Specified Learning Activities Total	9 3 5 22	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total	9 3 5 22 39	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total	9 3 5 22 39 ercise (30 %) and	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total Simulation exe	A presence 9 3 5 22 39 ercise (30 %) and	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total Simulation exe	A presence 9 3 5 22 39 ercise (30 %) and	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total Simulation exe	A presence 9 3 5 22 39 ercise (30 %) and	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total Simulation exe In-semester as Winter, each yone semester	A presence 9 3 5 22 39 ercise (30 %) and	processing, LI	n/post	B Self-study 86	1	95 3 5 22
Lectures Seminar Workshop Specified Learning Activities Total Simulation exe In-semester as Winter, each y one semester None	A presence 9 3 5 22 39 ercise (30 %) and	processing, LI	n/post	B Self-study 86	1	95 3 5 22
	(IAP) framewo in Ireland, UK preparing an E thesis and diss of countries an a practical mod disciplines) to course, we con cedures in gen will be utilised consultancies	(IAP) framework as well as legal in Ireland, UK and European Upreparing an Environmental Imthesis and dissemination of relof countries and discuss the praparatical mock scoping EIA extendisciplines) to assess and monicourse, we consider the differencedures in general and their specific countries.	(IAP) framework as well as legal and planning in Ireland, UK and European Union in participation of the preparing an Environmental Impact Statementhesis and dissemination of relevant information of countries and discuss the prostand constant a practical mock scoping EIA exercise where a disciplines) to assess and monitor environmenthesis of course, we consider the different careers avacedures in general and their spheres of influential will be utilised. One lecture is given by curriconsultancies in Ireland.	(IAP) framework as well as legal and planning fram in Ireland, UK and European Union in particular. In preparing an Environmental Impact Statement, including thesis and dissemination of relevant information. of countries and discuss the pros and cons of differ a practical mock scoping EIA exercise where method disciplines) to assess and monitor environmental course, we consider the different careers available cedures in general and their spheres of influence, will be utilised. One lecture is given by current econsultancies in Ireland.	(IAP) framework as well as legal and planning framework in which in Ireland, UK and European Union in particular. We then focus preparing an Environmental Impact Statement, including scoping thesis and dissemination of relevant information. We compare of countries and discuss the pros and cons of different approach a practical mock scoping EIA exercise where methodologies (especial disciplines) to assess and monitor environmental changes are recourse, we consider the different careers available in the field of cedures in general and their spheres of influence. Case studies will be utilised. One lecture is given by current ecologists from consultancies in Ireland.	

d) Das Modul M-GC-PCE wird wie folgt geändert:

M-GC-PCE	Political Consulting – Environmental Policy and Development Cooperation	2.Sem.	6 CP
Title of module	Political Consulting – Environmental Policy and Devel	opment Cooperation	
Code of module	M-GC-PCE		
Faculty / study program / Institution	08/ Biology/ Department of Plant Ecology		
used in StG / Sem.	2 Sem., MSc Global Change		
Person in charge	Prof. Dr. Christoph Müller		
Lecturers	N.N.		
Prerequisites	None		

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Course aims	Political co	nsulting is c	of growing importance	in nowadays fas	st changing societ	ies. Current		
	challenges arise in the fields of environmental policy and development cooperation a							
	cording to	cording to climate change, globalisation, migration, poverty, north-south divide etc. Or						
	successful	completion	of this module, stude	nts will have a b	oroad understand	ing of polit-		
	ical consult	ical consulting issues relating to these topics. They gain an insight into practical work of						
	political co	political consultants by experts from academia, public and private organisations, and						
	third secto	third sector. Students						
	- becom	 become aware of political approaches, processes, fields and actors, 						
			oncepts in political con					
	- learn a	about possi	bilities to influence ded	cision-making p	rocesses,			
			dvisers' ways of profes					
Course content			series of lectures give		_	=		
	litical scien	ce, biodive	rsity and climate resea	arch, conflict re	search etc., a ser	minar and a		
	workshop.							
	In the fram	nework of t	he lecture series speak	ers from devel	opment cooperat	ion and en-		
			esent where they do "p		_			
		=	he invited scientists, c			•		
		_	or single projects and bi		-	•		
	on their co	nsulting pro	ocesses and on how the	ey communicat	e their messages	to different		
	target grou	ips and bala	ance different roles and	d interests.				
	The semina	ar aims at d	ealing with policy cons	ulting issues sys	stematically. In pr	esentations		
	and written papers students work on following topics:							
	- Policy	Policy consulting as a field of work: conceptual definition, history, actors and insti-						
	tutions;							
	Governance ; context and structures of political processes;							
	Forms and actors: policy advise by science, think tanks, lobbying, citizens, media,							
	NGOs/bottom-up initiatives;							
	Fields of policy consulting; examples from Climate Change, Development Coopera-							
	tion, Food Security, Sustainability Research, Energy Transition, Sustainable Mobil-							
	ity, Te	chnology A	ssessment etc.					
	The 1-day workshop is organised in form of a role-play: a practical task/problem in de-							
	1	•	on in a given context is s		• •			
	•	•	at involves different po			• •		
		•	•					
			ctions for consulting ar	na project mana	agement are prov	idea, testea		
	"in the field	d", and join	tly evaluated.					
Class format	Lecture, Se	minar, prac						
Workload	180 h	ı	Cre	edit-Points: 6	_	1		
containing:		A Course	1	B self-study	C examination	total		
		a presence	b preparation /post					
	<u> </u>		processing, LN					
	Lecture	30	30			60		
	Seminar	20	20	20	40	100		
	Practice	8	12			20		
	Total	58	62	20	40	180		
Examination format	Written rep	oort (65%),	oral presentation (35%	S)				

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Grading, Repetition	
Availability, Duration	Summer, each year, one semester
Acceptance capacity	None
Language of instruction	English
Literature	
Notes	Information concerning modules and literature: see board of information / Date: see
	university calendar

e) Das Modul STAT40690 entfällt. Dafür wird das Modul ENVB40370 neu aufgenommen:

ENVB40370	Data Analy	sis and Inter	pretation		1.Sem.		5 CP	
Title of module	Data Analysis	and Interpretati	on					
Code of module		Data Analysis and Interpretation						
	_	ENVB40370						
Faculty / study program	UCD, School of	UCD, School of Biology and Environmental Science						
/ Institution								
used in StG / Sem.	1 Sem., MSc Gl							
Person in charge	Dr Jon Yearsley	/						
Prerequisites	None							
Course aims	This module ai	ms to equip you	with the skills t	o prof	essionally sy	nthesize and	d communi-	
	cate technical i	information in th	e field of biolog	gy and	environmer	ntal science.		
	Learning Outco	omes:						
	_	n a biological / e		•		due account	of inde-	
	-	ence, allocation of						
	_	ise and manipul						
		d validate a stati		_	-			
		null-hypothesis	_					
		ately communica er research ques		•				
				_	g, delelidabli	e conclusion	s using	
Course content		modern statistical data analysis methods The module blends online lessons, computer practicals and self-test problem sheets.						
		d include the rep						
	- I	environmental e	=		_	_		
	tistical softwar		, ,	•	J			
	For this modul	e, you will requii	re access to a co	omput	er that will r	un the R sta	itistical soft-	
	For this module, you will require access to a computer that will run the R statistical software (available for Windows, Mac or Linux operating systems at https://www.r-pro-							
		RStudio (freely		-		-	-	
	dio/#Desktop).		•				•	
Class format	On-line learnin	ıg						
Workload	125 h	<u>-</u>		Cred	it-Points: 5 (CP		
containing:		A Course		В	Self-study	C examinat	ion total	
A presence b preparation/post								
	On line Jeans		processing, LN				125	
	On-line learn- ing						125	
	Total						125	
Examination format		sessment: Online	e data analysis	test 1 ((20 %), Onlir	ne data anal		
Grading		to accompany o	-				-	
Repetition	%)							
	Examination: E	ind of semester	exam (2 h) (50 s	%)				

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Availability	Winter, each year
Duration	one semester
Acceptance capacity	None
Language of instruction	English
Literature	
Notes	

f) Das Modul BOTN40180 entfällt. Dafür wird das Modul BOTN40240 neu aufgenommen:

BOTN40240	Future crops and food security	1.Sem.	5 CP			
			•			
Title of module	Future crops and food security					
Code of module	BOTN40240					
Faculty / study program	UCD, School of Biology and Environmental Science					
/ Institution						
used in StG / Sem.	1 Sem., MSc Global Change					
Person in charge	Prof. Bruce Osborne					
Prerequisites	None					
Course aims	Food production faces arguably unprecedented challe nation of an ever increasing global population, the prwith climate change. Not only do we have to produce with low inputs and minimal environmental impacts, the food is nutritious, safe and affordable. This challe there is already evidence of declining or stagnating creased diversification of agricultural production syst tween food production and the production of bioene. The learning objectives of this course are to:	ojected constraints ass more food in a sustair but we also have to en nge is particularly daur op yields and, because ems, increased compet	ociated nable way, sure that nting as of in- cition be-			
	1. Provide an evaluation of the constraints on future	food production;				
	2. Describe the main features of climate change and I	•	n crops;			
	3. Evaluate the ways in which crops/plants might be modified to enhance productivity and yield;					
	4. Recognise the importance of enhancing combined abiotic/biotic stress for realising potential yield increases under field situations;					
	5. Evaluate the environmental impact of crop product sustainability;	tion systems and the co	oncept of			
	6. Evaluate how some aspects of climate change, part concentrations, may be used to our advantage;	ticularly elevated carbo	on dioxide			
	7. Evaluate how management interventions interact v	with climate change.				
Course content	This module will examine the threats to agriculture change, agricultural diversification and environmental examine how increased photosynthetic productivity potential for producing crops that are more resistant. We will also examine how the dual objectives of encreasing the diversity of agricultural products, may be new/novel crops and the utilization of wild plant ge	al/legislative constraint might be achieved, as to combined abiotic /b hancing food production e met, including the int	s. It will also well as the iotic factors. on whilst in- roduction of			

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	will also exami for enhancing		spects of our	future o	limate might	be used to our a	advantage
Class format	Lectures, spec	ified learning a	ctivities				
Workload	125 h			Credit	-Points: 5 CP		
containing:		A Course			B Self-study	C examination	total
		A presence	b preparati processing,				
	lectures	12					12
	specified learning activi- ties	14					14
	Autonomous Student Learn- ing				99		99
	Total						125
Examination format Grading Repetition	Essay (50%), E	nd of semester	essay style e	xaminat	tion (2 h) (509	%)	
Availability	Winter, each y	ear					
Duration	one semester						
Acceptance capacity	None						
Language of instruction	English						
Literature							
Notes							

g) Das Modul MP 155 entfällt. Dafür wird das Modul MK 96 neu aufgenommen:

MK 96	Sustainable Agroecosystems	2.Sem.	6 CP
	1		.
Title of module	Sustainable Agroecosystems		
Code of module	MK 96		
Faculty / study program	UCD, School of Biology and Environmental Science	е	
/ Institution			
used in StG / Sem.	2 Sem., MSc Global Change		
Person in charge	Prof. Dr. Andreas Gattinger		
Prerequisites	None		
Course aims	 Get insight knowledge in to the complexi systems under integrated, organic and age. Learn and understand the biophysical factorized the functioning of agroecosystem. Are guided to critically examine agricultur gies to increase/stabilize productivity and mizing negative impacts on the environm bility. Practice scientific observation in the field. Practically apply agroecologic principles. broaden their understanding of environm of farming enterprises. deepen their ability to access a topic by an examine and agreed their ability. 	gro-ecological product ctors, processes and in ins. Iral practices and man d resource use efficier ment and ensuring soci	nteractions that hagement strate- hcy, while mini- ho-economic via-

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Course content	 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 					
Class format	Seminar, field trip					
Workload	180 h Credit-Points: 6 CP					
containing:	A Course		B Self-study	C examination	total	
		A presence	b prepara- tion/post pro- cessing, LN			
	seminar	50	50			100
	Field trip	10				10
	Total	60	50	40	30	180
Examination format Grading Repetition	a) Seminar work (Presentations, exercises, discussions; assessment scheme can be requested from module coordinator) and oral examination and or b) other examinations conducted by the teaching staff Seminar work (50%), oral examination (50%)					
Availability	Winter, each year					
Duration	one semester					
Acceptance capacity	None					
Language of instruction	English					
Literature						
Notes						

- h) Das Modul M-GC-REM "Resource Economics and Environmental Management" erhält den Titel: "Resource Economics, Sustainabilty and Environmental Management"
- i) In Modul M-GC-REM wird unter "Course content" der folgende Satz ergänzt:

"The module combines a lecture and a seminar where students work on issues of resource use, its optimisation of consumption as well as on political intervention and planning tools:"

2. § 32 wird wie folgt neu gefasst:

"Diese Ordnung in der Fassung des 7. Änderungsbeschlusses gilt für alle Studierenden, die ab Wintersemester 2018/2019 das Studium beginnen."

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Art. 2 Inkrafttreten

Dieser Beschluss tritt am Tage nach seiner Verkündung in Kraft. Der neue Wortlaut der geänderten Ordnung wird in den Mitteilungen der Universität Gießen bekannt gemacht.

Gießen, den 27.11.2018 Prof. Dr. Joybrato Mukherjee Präsident der Justus-Liebig-Universität Gießen