

## module code / module title

## **GisAppl / GIS Applications in Ecology**

date / version of the module description

25.05.2022

1	INFORMATION ON THE MODULE			
1a	module code	GisAppl		
1b	module title (German title)	GIS Anwendungen in der Ökologie		
1c	module title (English title)	GIS Applications in Ecology		
1d	credit points	3		
1e	responsible for the module	Prof. Dr. Martin Diekmann		
1f	type of module	elective module		
1g	programs using the module	M.Sc. Ecology		
1h	organizational unit offering the module	Klicken Sie hier, um Text einzugeben.		
1i	content-related prior knowledge or skills	Klicken Sie hier, um Text einzugeben.		
<b>1</b> j	learning contents	<ul> <li>General introduction to the concept of Geographical Information Systems (GIS)</li> <li>Basic overview about the program QGIS and its structure and applications</li> <li>Use of various features, among others vector tools (geometry and geoprocessing tools), attribute tables, selection of features and joining</li> <li>Introduction to digitalization and import of own research data</li> <li>Map editing of the produced data</li> <li>Exemplary ecological applications</li> </ul>		

1k	learning outcomes/ competencies/ targeted competencies	<ul> <li>Students have general knowledge of the use of the program QGIS and its potential applications in ecology</li> <li>They can digitalize, import and transform own or external research data for basic spatial and statistical analyses</li> <li>They can process the acquired data graphically for presentation and publication</li> </ul>				
	calculation of student workload (part a: calculation of presence time and working hours)	The total amount of the presence time and working hours of the module has to be calculated additionally in the detailed calculation a) to c).  a) detailed calculation:  SWS / presence time/working hours in each course of the module				
11		☐ 1 lecture(s) with	n 1	SWS/ contact hours	hours of presence time	
		□ seminar(s) wi	th	SWS/ contact hours	hours of presence time	
			ith 1	SWS/ contact hours	hours of presence time	
		☐ internship(s) v	with	sum of working hours		
		□ seminar(s) with	h	SWS/ contact hours	total hours of presence time	
		☐ laboratory/labo	oratories with	SWS/ contact hours	total hours of presence time	
		□ tutorial(s) with	n	SWS/ contact hours		
		□ excursion(s) v	with	SWS contact hours in total	working hours	
		□ other form of course (e.g. block seminar), namely this:				
		Klicken Sie hier, um Text einzugeben.				
		with SWS /	with totaly	contact presence tim	e	
		= sum of presence time and wo	orking hours:			
		28				
	calculation	b) working hours for prep	paration/follow-up wo	ork of the course(s) and/or	self-study	
	of student workload	= sum of working hours:				
	(part b: preparation time and follow-up work/self-study)	Lectures: 14 hours				
		Exercises: 14 hour	rs		_	

		28 hours in total		
		c) exam preparation (incl. examination)		
	calculation of student workload	= sum of working hours:		
	(part c: exam preparation etc.)	34 hours		
	calculation of student workload	T-4-1		
	(total amount of hours including a) - c))	Total amount of the presence time and working hours a) to c): 90 hours		
	description of possible optional courses in the module	Can a student choose between different courses within the module?		
		NO		
1m		Short description of selection option		
		Klicken Sie hier, um Text einzugeben.		
4	language(s) of instruction	<ul><li>☐ German</li><li>☐ English</li><li>☐ Spanish</li><li>☐ French</li><li>☐ Other, namely this:</li></ul>		
1n		□ Other, namely this:  Klicken Sie hier, um Text einzugeben.		
	frequency	(regular cycle module is offered) e.g.: winter semester, yearly or summer semester, yearly or each semester		
10		winter semester yearly		
		Klicken Sie hier, um Text einzugeben.		
	duration	Other, namely this:		
1p		Two weeks á 3 days. The project report is due 2 weeks after the end of the course.		
1q	Literature (optional)	Klicken Sie hier, um Text einzugeben.		
1r	more information on the module (optional)	Instructor: Cecilia Dupré		
2	INFORMATION ON THE MODULE EXAMINATION (see also AT Art. 5 section 8)			
2a	type of examination			
		□ combination exam, i.e. exam with several components (administered by instructors) (KP)		
		□ partial exam; i.e. exam with several components (administered by registrar) (TP)		

2b	exam components or prerequisites (type, number)	PL = graded component of the examination  SL = ungraded component of the examination, coursework  PVL = prerequisite of the examination (see AT Art. 5 Section 10)  □ PL   1 □ SL   □ PVL   justification  If necessary, further explanations:  PL = Project report		
2c	Give this information for combination examinations only: Weights (in percentage) of component grades	PL 1: Klicken Sie hier, um Text einzugeben.  PL 2: Klicken Sie hier, um Text einzugeben.  PL 3: Klicken Sie hier, um Text einzugeben.  PL 4: Klicken Sie hier, um Text einzugeben.  If necessary, further comments:  Klicken Sie hier, um Text einzugeben.		
2d	form of examination (see AT BPO/AT MPO Art. 8, 9 and 10)	□ Assignment       □ Oral examination (single)       □ Presentation, oral         □ Written examination       □ Group examination, oral       □ Presentation and written assignment         □ Portfolio       ☑ Project report       □ Bachelor Thesis         □ Internship report       □ Colloquium       □ Master Thesis         □ Other (concrete definition is given in the examination regulations):         Klicken Sie hier, um Text einzugeben.		
2e	language(s) of instruction	☐ German ☑ English ☐ Spanish ☐ French ☐ Other, namely this: Klicken Sie hier, um Text einzugeben.		