Module Catalogue

I. Mandatory Modules

BM1: Advanced Natural Langua	ge Processing		Total Credi 9 ECTS	its:
Module type (compulsory/ elective module)	Compulsory modu	ıle		
Module content and learning outcomes:	Intended learning outcomes: - Students have broad and well-founded knowledge of the methods and applications of computational linguistics. On this basis, they are able to understand and critically contextualize current computational linguistics literature. They are trained to independently review literature. - Students are able to select and use suitable methods for specific, given computational linguistic problems. - Students are able to implement computational linguistic algorithms in a suitable programming language. They know the commonly available grammars and data sets and are able to use and, if necessary, to process them for the respective problems.			
	Syllabus: The course covers the most important applications of computational linguistics as well as the modeling approaches and associated algorithms use in these applications. It focuses on symbolic and statistical methods for parsing, generation, part-of-speech tagging, semantic processing, discours processing and machine translation. The lecture is accompanied by exercise and intensive self-study (textbook, research literature).			
(Sub) module exam(s) (number, type, scope):	written exam, 120 minutes final project, project report of approx. 10 pages			
Self-study time (hours):	210			
	Contact hours	Exam prerequisites (number, type, scope	e)	Course-related (sub) module
Courses (teaching format)	(hours per week)	For completing the module	For admission to module exam	exam(s) (number, type, scope)
Lecture (lecture)	2	-	-	-
Exercise (exercise)	2	-	Successful completion of the weekly exercises	-
Frequency:		Once a year (winter semester)		
Prerequisites for participating in the	module:	None		
Department offering the module:		Linguistics		

BM2: Machine Learning and Data Analysis		Total Credits: 9 ECTS
Module type (compulsory/ elective module)	Compulsory	

Module content and learning outcomes:	Intended learning outcomes Students are able to analyze data analysis and modeling problems, map them onto machine learning paradigms and Bayesian statistics, implement solutions, for example in Python, and define the quality of the inferred models using suitable evaluation protocols. Syllabus Types of modeling problems and learning methods, basics of Bayesian statistics and empirical inference, linear classification and regression models, linear mixed models, generalized (mixed) linear models, kernel methods, model evaluation, implementation of data analysis methods, e.g. in Python.			
(Sub) module exam(s) (number, type, scope):	Oral exam, 30 minutes			
Self-study time (hours):	150			
Courses (teaching format)	Contact hours	Exam prerequisites (number, type, scop) For completing the	e) For admission to	Course-related (sub) module exam(s)
	(hours per week)	module	module exam	(number, type, scope)
Intelligent Data Analysis (lecture)	2	-	-	-
Intelligent Data Analysis (exercise)	2	-	Completing 70% of the exercises and completing a project task	-
Frequency:	1 1	Once a year (summer semester)		
Prerequisites for participating in the module: Department offering the module:		None Computer Science		

BM3: Advanced Problem Solving	Techniques	Total Credits: 9 ECTS
Module type (compulsory/ elective module)	Compulsory	
Module content and learning outcomes:	Intended learning outcomes Students are able to define and interpret spectand doctrines in the field of declarative proble comprehension forms the basis for developing and research-oriented ideas in declarative problems, detailed, and critical understanding a selected special areas of declarative problems apply their knowledge and comprehension a skills in new and unfamiliar situations that has connection to declarative problem-solving. Syllabus The course deals with the basics, algorithm declarative problem-solving methods. Declause general problem-solving methods for combinatorial) problems. This includes designanting, configuration, and much more programming, no programs are created for so the (formal) modeling of initial problems. Care able to solve problems with several resystems are now used in the industrial sector and linguistics.	em solving. Their knowledge and ng and/ or applying independent roblem solving. Students have a of state-of-the-art knowledge in m solving. Students are able to as well as their problem-solving have a wider or multidisciplinary ms, systems, and application of trative problem-solving methods automatically solving (mostly gn, diagnosis, action and hourly re. In contrast to traditional olving the problems, but only for current problem solving systems million variables. The resulting
(Sub) module exam(s) (number, type, scope):	Written exam, 90 minutes	

Self-study time (hours):	180			
	Contact hours	Exam prerequisites (number, type, scope)		Course-related (sub) module
Courses (teaching format)	(hours per week)	For completing the module	For admission to module exam	exam(s) (number, type, scope)
Lecture (lecture)	2	-	-	-
Exercise (exercise)	2	-	-	-
Internship (internship)	1	oral consultation on attendance certificate (15 min.)	-	-
Project (project)	2	Documentation (5 pages)	-	-
Frequency:		Once a year (winter semester)		
Prerequisites for participating in the module:		None		
Department offering the module:		Computer Science		

II. Optional Modules

FM1: Foundations of Mathemati	cs		Total Credi 6 ECTS	ts:	
Module type (compulsory/ elective module)	Elective module	Elective module			
	Intended learning outcomes: Students have the necessary background knowledge in mathemat successfully complete the basic modules of the program. They are a organize themselves to acquire this knowledge independently and present subject matters and connections.				
Module content and learning outcomes:	Syllabus: Analysis: limits, functions, differential calculus, calculating maxima and minima, integral calculus, integration of rational functions, indefinite integrals, functions of multiple variables, partial differentiation, multidimensional integrals. Linear algebra: systems of linear equations, Gaussian algorithm, determinants, matrices and vectors, scalar and vector products, straight lines and planes, differentiation of vector-valued functions. The content is conveyed through relevant online video lectures, e.g. from Coursera or MIT OpenCourseWare.				
(Sub) module exam(s) (number, type, scope):	Oral examination	(20 min.)			
Self-study time (hours):	150				
				` /	
Courses (teaching format)	(hours per week)	For completing the module	For admission to module exam	exam(s) (number, type, scope)	
Video lecture (lecture)	-	-	-	-	
Exercise (exercise)	2	-	Successful completion of the exercises	-	
P					
Frequency:		Once a year (winter	semester)		

Prerequisites for participating in the module:	Decision of the Examining Board pursuant to § 5(1)
Department offering the module:	Linguistics

FM2: Foundations of Computer	Science		Total Credi 6 ECTS	its:	
Module type (compulsory/ elective module)	Elective module	Elective module			
	Intended learning outcomes: Students have the necessary background knowledge in computer science to successfully complete the basic modules of the program. They are able to organize themselves to acquire this knowledge independently and orally present subject matters and connections.				
Module content and learning outcome:	Syllabus: Algorithms and data structures: growth of functions and O-notation, divide-and-conquer, sorting and searching, elementary data structures, dynamic programming, greedy algorithms, elementary graph algorithms Formal languages: Chomsky hierarchy; regular languages and finite-state automata, context-free languages and push-down automata. finite-state transducer; Turing machines Theoretical foundations: computability, halting problem, nondeterminism, recursion, inductive definitions (lists, trees). The content is conveyed through relevant online video lectures, e.g. from Coursera or MIT OpenCourseWare.				
(Sub) module exam(s) (number, type, scope):	Oral examination (20 min.)				
Self-study time (hours):	150				
	Contact hours	Exam prerequisites (number, type, scop	e)	Course-related (sub) module	
('ourses (teaching tormat)	(hours per week)	For completing the module	For admission to module exam	exam(s) (number, type, scope)	
Video lecture (lecture)	-	-	-	-	
Exercise (exercise)	2	-	Successful completion of the exercises	-	
Frequency:		Once a year (winter semester)			
Prerequisites for participating in the	module:	Decision of the Examining Board pursuant to § 5(1)			
Department offering the module:		Computer Science			

FM3: Foundations of Linguistics	Total Credits: 6 ECTS
Module type (compulsory/ elective module)	Elective module

Module content and learning outcomes:	Intended learning outcomes: Students have the necessary background knowledge in linguistics to successfully complete the basic modules of the program. They are able to organize themselves to acquire this knowledge independently and orally present subject matters and connections. Syllabus: Theoretical foundations of: syntax, semantics, phonology, and psycholinguistics: structure of words, phrase structure, syntactic dependencies, word order and syntactic relations; foundations of Montague semantics, compositionality, scope, conventional and conversational implicature, Gricean maxims, speech sounds, phonological representations and constraints, theories of word and sentence processing, dialogue and discourse processing, language acquisition. The content is conveyed through relevant online video lectures, e.g. from Coursera or MIT OpenCourseWare.				
(Sub) module exam(s) (number, type, scope):	Oral examination (20 min.)				
Self-study time (hours):	150				
		Exam prerequisites		Course-related	
	Contact hours	(number, type, scope)		(sub) module	
Courses (teaching format)	(hours per week)	For completing the module	For admission to module exam	exam(s) (number, type, scope)	
Video-Lecture (lecture)	-	-	-	-	
Exercise (exercise)	2	-	Successful completion of the exercises	-	
Frequency:		Once a year (winter semester)			
Prerequisites for participating in the module:		Decision of the Examining Board pursuant to § 5(1)			
Department offering the module:		Linguistics			

AM11: Current Topics in Compu	ntational Linguistics 1	Total Credits: 6 ECTS
Module type (compulsory/ elective module)	Elective module	
Module content and learning outcomes:	Intended learning outcomes: - Students can independently review the on a given topic. - Building on the knowledge acquired in understanding of specific current topics solutions are being pursued, what are the Students are able to critically examine arguments, check the suitability of select alternatives. Syllabus: Topics are selected from the current into literature (conferences, journals), which knowledge gained in the BM modules. The courses in this module are usually some may also be offered as a lecture. A completes either a seminar or a lecture.	n BM1, students develop a deeper in computational linguistics: Which heir strengths and weaknesses? The research work, i.e. question eted solutions and consider the ernational computational linguistics in are discussed in depth based on the eseminars; depending on the topic, At the end of the module, the student
	Enrollment in the AM12 module enable computational linguistics.	

(Sub) module exam(s) (number, type, scope):	For course-related (sub) module exam(s) see below			
Self-study time (hours):	150			
	Contact hours	Exam prerequisites (number, type, scope)		Course-related
Courses (teaching format)	(hours per week)	For completing the module	For admission to module exam	(sub) module exam(s) (number, type, scope)
Lecture or seminar (lecture or seminar)	2	-	-	If seminar: portfolio examination consisting of a presentation (60 min) and a related seminar paper (approx. 20 pages); if lecture: written exam (90 min) or oral exam (20 min).
English annuatur				
Frequency: Prerequisites for participating in the module:		Each semester None		
Department offering the module: Linguistics Linguistics				

AM12: Current Topics in Compu	ıtational Linguistic	es 2	Total Cre 6 ECTS	dits:
Module type (compulsory/ elective module)	Elective module			
Module content and learning outcomes:	on a given topic. - Building on the landerstanding of solutions are being. - Students are able arguments, check alternatives. Syllabus: Topics are selected literature (conferent knowledge gained The courses in this some may also be completes either a	ependently review the curre knowledge acquired in BM1 pecific current topics in cor g pursued, what are their stre to critically examine resear the suitability of selected so d from the current internation nees, journals), which are din in the BM modules. Is module are usually seminal offered as a lecture. At the seminar or a lecture.	nputational engths and rch work, i. olutions and onal comput iscussed in ars; dependi	levelop a deeper linguistics: Which weaknesses? e. question consider tational linguistics depth based on the mg on the topic, nodule, the student
(Sub) module exam(s) (number, type, scope):	For course-related (sub) module exam(s) see below			
Self-study time (hours):	150			
Courses (teaching format)	Contact hours (hours per week)	Exam prerequisites (number, type, scope)		Course-related (sub) module

		For completing the module	For admission to module exam	exam(s) (number, type, scope)	
Lecture or seminar (lecture or seminar)	2	-	-	If seminar: portfolio examination, consisting of a presentation (60 min) and a related seminar paper (approx. 20 pages); registration for the module exam takes place when registering for the seminar. If lecture: written exam (90 min) or oral exam (20 min)	
Frequency:		Each semester			
Prerequisites for participating in the module:		None			
Department offering the module:		Linguistics			

AM21: Current Topics in Machine Learning 1			Total Cre 6 ECTS	dits:
Module type (compulsory/ elective module)	Elective module			
Module content and learning outcomes:	Intended learning outcomes Students have extensive, detailed, and specialized knowledge that is in line with the state of the art in selected special areas of machine learning. They have advanced knowledge in the adjacent field of Bayesian statistics. Students are able to analyze modelling problems, map them onto machine learning paradigms and Bayesian statistics, develop and implement solutions, and determine the quality of the solutions using suitable evaluation protocols. They are able to develop new ideas and procedures, weigh alternatives if the information is incomplete, and evaluate them using different assessment criteria. Syllabus Selection of advanced topics from the field of machine learning, e.g. graphic models, Gaussian processes, inference, reinforcement learning, online learning, transfer learning, kernel procedures, recommendation algorithms. The courses in this module are usually seminars; depending on the topic, some may also be offered as a lecture. At the end of the module, the student completes either a seminar or a lecture. Enrollment in the AM22 module enables the student to further specialize in machine learning.			
(Sub) module exam(s) (number, type, scope):	For course-related	(sub) module exam(s	s) see below	
Self-study time (hours):	150			
		Į.		
	Contact hours	Exam prerequisites (number, type, scope	e)	Course-related (sub) module
Courses (teaching format)	Contact hours (hours per week) For completing the		For admission to module exam	exam(s) (number, type, scope)

Lecture or seminar (lecture or seminar)	2	-	-	If seminar: portfolio examination consisting of a presentation (60 min) and a related seminar paper (approx. 20 pages); if lecture: written exam (90 min) or oral exam	
				(20 min).	
Frequency:	·	Each semester	·		
Prerequisites for participating in the module:		None			
Departments offering the module:		Computer Science (50%) Linguistics (50%)			

AM22: Current Topics in Machine Learning 2			Total Cre 6 ECTS	dits:
Module type (compulsory/ elective module)	Elective module			
Module content and learning outcomes:	Students have extensive, detailed, and specialized knowledge that is in line with the state of the art in selected special areas of machine learning. They have advanced knowledge in the adjacent field of Bayesian statistics. Students are able to analyze modelling problems, map them onto machine learning paradigms and Bayesian statistics, develop and implement solutions, and determine the quality of the solutions using suitable evaluation protocols. They are able to develop new ideas and procedures, weigh alternatives if the information is incomplete, and evaluate them using different assessment criteria. Syllabus Selection of advanced topics from the field of machine learning, e.g. graphic models, Gaussian processes, inference, reinforcement learning, online learning, transfer learning, kernel procedures, recommendation algorithms. The courses in this module are usually seminars; depending on the topic, some may also be offered as a lecture. At the end of the module, the student completes either a seminar or a lecture. Enrollment in the AM22 module enables the student to further specialize in machine learning.			
(Sub) module exam(s) (number, type, scope):	For course-related	(sub) module exam(s	s) see below	
Self-study time (hours):	150			
	Contact hours	Exam prerequisites (number, type, scope	e)	Course-related
Courses (teaching format)	(hours per week)	F 1 Fo		(sub) module exam(s) (number, type, scope)

	2	-	-	If seminar: portfolio	
Lecture or seminar (lecture or seminar)				examination consisting of a presentation (60 min) and a related seminar paper (approx. 20 pages); if lecture: written exam (90 min) or oral exam (20 min).	
Frequency:		Each semester			
Prerequisites for participating in the module:					
		None			
Departments offering the module:		Computer Science (50%) Linguistics (50%)			

AM31: Current Topics in Compu	ıtational Intelligen	ce 1	Total Cre 6 ECTS	dits:
Module type (compulsory/ elective module)	Elective module			
Module content and learning outcomes:	Intended learning outcomes - Students are able to define and interpret special aspects, limits, terminologies, and doctrines in the field of computational intelligence. - Their knowledge and comprehension forms the basis for developing and/ or applying independent and research-oriented ideas in computational intelligence. - Students have a broad, detailed, and critical understanding of state-of-the-art knowledge in selected areas of computational intelligence. - Students are able to apply their knowledge and comprehension as well as their problem-solving skills in new and unfamiliar situations that have a wider or multidisciplinary connection to knowledge representation and processing. Syllabus Selection of advanced topics from the field of computational intelligence, e.g. logical basics, exact reasoning, error-tolerant reasoning, temporal and spatial reasoning, taxonomic systems, argumentative systems, autonomous systems, action planning, configuration, diagnosis, multidimensional constraint satisfaction problems, etc. The courses in this module are usually seminars; depending on the topic, some may also be offered as a lecture. At the end of the module, the student completes either a seminar or a lecture. Enrollment in the AM32 module enables the student to further specialize in computational intelligence.			
(Sub) module exam(s) (number, type, scope):	For course-related	(sub) module exam(s	s) see below.	
Self-study time (hours):	150			
	Contact hours	exam prerequisites (number, type, scope	e)	Course-related
Courses (teaching format)	(hours per week)	For completing the module	For admission to module exam	(sub) module exam(s) (number, type, scope)

	2	-	-	If seminar:
				portfolio
				examination
				consisting of a
Lecture or seminar (lecture or seminar)				presentation (60
				min) and a related
				seminar paper
				(approx. 20
				pages); if lecture:
				written exam (90
				min) or oral exam
				(20 min).
Frequency:		Each semester		
Prerequisites for participating in the module:		None		
Department offering the module:		Computer Science		

AM32: Current Topics in Compu	ıtational Intelligen	ce 2	Total Cre 6 ECTS	dits:
Module type (compulsory/ elective module)	Elective module			
Module content and learning outcomes:	terminologies, and Their knowledge a applying indeper intelligence. Students have a brown knowledge in selection of advantidisciplinary of the selection of advantiogical basics, exareasoning, taxonor action planning, satisfaction problem The courses in this may also be offe completes either a separation of the selection of the selection of advantages.	to define and interpretal doctrines in the field and comprehension for and research road, detailed, and cricted areas of computate o apply their knowled kills in new and unfactonnection to knowled acced topics from the first reasoning, error-tomic systems, argument configuration, diag	of computational orms the basis for a coriented ideas attical understandinational intelligence and comprehensiliar situations added representation lerant reasoning, antative systems, a gnosis, multidimeminars; depending the end of the are. Enrollment in	I intelligence. I developing and/ or I developing and/ or In computational Ing of state-of-the-art I e. Insion as well as their I that have a wider or I and processing. Inal intelligence, e.g. I temporal and spatial I utonomous systems, I ensional constraint I mg on the topic, some I module, the student I the AM32 module
(Sub) module exam(s) (number, type, scope):	For course-related	(sub) module exam(s	s) see below.	
Self-study time (hours):	150			
	Contact h	Exam prerequisites (number, type, scope	e)	Course-related
Courses (teaching format)	Contact hours (hours per week)	For completing the module	For admission to module exam	(sub) module exam(s) (number type, scope)

	2	-	-	If seminar:
				portfolio
				examination
				consisting of a
				presentation (60
Lecture or seminar (lecture or seminar)				min) and a related
				seminar paper
				(approx. 20
				pages); if lecture:
				written exam (90
				min) or oral exam
				(20 min).
Frequency:		Each semester		
Prerequisites for participating in the module:		None		
Department offering the module:		Computer Science		

III. Project Seminars

PM1: Project in Computational I	Linguistics	Total Credits: 12 ECTS
Module type (compulsory/ elective module)	Elective module	
	Syllabus: Students first work on a specific topic of clinguistics. They read up on the specific to seminar. On this basis, teams of students experimental, or development projects with work on these projects and ultimately preser When selecting the subject areas, the lecture current literature.	opic and discuss question in the then define their own research, a clearly defined content. They nt their results.
	Intended learning outcomes: - Students have become acquainted with a specific current state of research. They are able to art and to develop their own research question enables them to apply these skills to other to	o assess the current state of the ons in critical response to it. This
Module content and learning outcomes:	- Students are able to independently define a They are able to select suitable subject-spec effectively to the project. To do so, they are resources (programs, data sets, grammars, et purposes or develop them themselves.	ific methods and apply them able to obtain the necessary
	- Students are able to plan and organize a do its feasibility and the required resources responsibility for the success of the project, sub-projects. They are able to organize the time and work towards a deadline Students are able to present and account for able to present the project results verbally guidelines of good scientific commun communicate effectively within their team work, and possible conflicts and to effective to other teams as well as to give constructive	They are proficient in taking working in a team, and managing ir own and their team's working their research question. They are and in writing according to the dication. They are trained to about approaches, distribution of ly communicate these aspects and
(Sub) module exam(s) (number, type, scope):	For course-related (sub)module exam(s) see	below
Self-study time (hours):	330	

Courses (teaching format)	Contact hours (hours per week)	Exam prerequisites (number, type, scope)		Course-related (sub) module
		For completing the module	For admission to module exam	exam(s) (number, type, scope)
Seminar (seminar)	2	-	-	Portfolio exam consisting of project report (approx. 20 pages) and project presentation (20 minutes)
Frequency:		Once a year (usually in the summer semester)		
Prerequisites for participating in the module:		None		
Department offering the module:		Linguistics		

PM2: Project in Machine Learnin	ng	Total 12 ECTS	Credits:
Module type (compulsory/ elective module)	Elective module		
Module content and learning outcomes:	Intended learning outcomes: - Students have become acquainted with a specurent state of research. They are able to coresearch and, by critically assessing it, deverage and the project that the project shall be subject-specificatively to the project. To do so, they resources (programs, data sets, grammars, purposes or develop them themselves. - Students are able to plan and organize a doits feasibility and the required resources responsibility for the success of the project, sub-projects. They are able to organize the time and work towards a deadline. - Students are able to present and account for able to present the project results verbally guidelines of good scientific communicate effectively within their team work, and possible conflicts and to effective to other teams as well as to give constructive to other teams as well as to give constructive to other teams of students then define their development projects with a clearly define projects and ultimately present their results. When selecting the subject areas, the lecture current literature.	porrelate the content of the property of their own research the realistic topic for pecific methods and are able to obtain the effined research project. They are proficies working in a team, a fir own and their team of their research question. They are about approaches, of the property of the research in mace and in writing according to the property of the propert	of the state of rch questions. ter work. their projects. d apply them the necessary nem for their ect and assess ent in taking and managing am's working tion. They are cording to the extrained to distribution of se aspects and thine learning. minar. On this perimental, or work on these
(Sub) module exam(s) (number, type, scope):	For course-related (sub)module exam(s) see	below	
Self-study time (hours):	330		

Courses (teaching format)	Contact hours (hours per week)	Exam prerequisites (number, type, scope	Course-related		
		For completing the module	For admission to module exam	(sub) module exam(s) (number type, scope)	
Seminar (Seminar)	2	-	-	Portfolio exam consisting of project report (approx. 20 pages) and project presentation (20 minutes)	
Frequency:		Once a year (usually in the winter semester)			
Prerequisites for participating in the module:		None			
Departments offering the module:		Computer Science (50 %) Linguistics (50 %)			

PM3: Project in Computational I	ntelligence	Total 12 ECTS	Credits:
Module type (compulsory/ elective module)	Elective module		
Module content and learning outcomes:	Intended learning outcomes: - Students have become acquainted with a specurrent state of research. They are able to consearch and, by critically assessing it, deverage and the project are able to independently define a students are able to independently define a selectively to the project. To do so, they resources (programs, data sets, grammars, purposes or develop them themselves. - Students are able to plan and organize a doi its feasibility and the required resources responsibility for the success of the project, sub-projects. They are able to organize the time and work towards a deadline. - Students are able to present and account for able to present the project results verbally guidelines of good scientific communicate effectively within their team work, and possible conflicts and to effective to other teams as well as to give constructive to other teams as well as to give constructive seminar. On this basis, teams of students experimental, or development projects with work on these projects and ultimately present when selecting the subject areas, the lecture current literature.	primate the content lop their own researcher topics in their last a realistic topic for pecific methods and are able to obtain and etc.) and adapt the effined research project. They are proficit working in a team, a fir own and their team of their research quest and in writing according to the effect of the feedback.	of the state of rch questions. ter work. their projects. d apply them the necessary nem for their ect and assess ent in taking and managing am's working tion. They are cording to the extrained to distribution of se aspects and computational uestion in the own research, content. They
(Sub) module exam(s) (number, type, scope):	For course-related (sub)module exam(s) see	below	
Self-study time (hours):	330		

Courses (teaching format)	Contact hours (hours per week)	Exam prerequisites (number, type, scope	Course-related		
		For completing the module	For admission to module exam	(sub) module exam(s) (number, type, scope)	
Seminar (seminar)	2	-	-	Portfolio exam consisting of project report (approx. 20 pages) and project presentation (20 minutes)	
Frequency:		Once a year (usually in the summer semester)			
Prerequisites for participating in the module:		None			
Department offering the module:		Computer Science			

IV. Scholary Work Methods

IM1: Individual Research Modul	e		Total Cre 15 ECTS	dits:	
Module type (compulsory/ elective module)	Compulsory				
Module content and learning	Syllabus: Intended learning outcomes: Students prepare their own research project which they define together with a lecturer and select on the basis of current research topics. They present their results at the institute and document them in writing.				
outcomes:	Intended learning outcomes: - Students have in-depth and detailed knowledge of their research topic. They are able to formulate their own research questions, master the methods of their subject and work independently on their research questions Students are able to present their research results to experts at a public meeting and account for their research questions.				
(Sub) module exam(s) (number, type, scope):	For course-related (sub)module exam(s) see below				
Self-study time (hours):	420				
	Contact hours (hours per week)	Exam prerequisites (number, type, scope	e)	Course-related (sub) module exam(s) (number, type, scope)	
Courses (teaching format)		For completing the module	For admission to module exam		
Internship (internship)	2	-	-	Portfolio exam consisting of a term paper (approx. 30 pages) and a presentation (approx. 20 minutes) or poster presentation on the project topic	
Frequency:		Each semester			
Prerequisites for participating in the	module:	None			

Departments offering the module:	Linguistics (50%)
	Computer Science (50%)

Exemplary Study Schedule

Term/ Module	1	2	3	4	Total ECTS
Module	I Mai	 ndatory Modu	ıles		ECIS
BM1	9			T	
BM2		9			
BM3	9				27
	II O _l	ptional Modul	les		
	12	12			24
* FM1	<6>				
* FM2	<6>				
* FM3	<6>				
AM11	<6>	<6>			
AM12	<6>	<6>			
AM21	<6>	<6>			
AM22	<6>	<6>			
AM31	<6>	<6>			
AM32	<6>	<6>			
Gesamt	12	12			
	III P	rojekt Semina	irs		
		12	12		24
PM1		<12>	(<12>)		
PM2		(<12>)	<12>		
PM3		<12>	(<12>)		
IV Scholary Work					
IM1			15		15
MA-thesis					
MA-Thesis				30	30
Summe	30	33	27	30	120