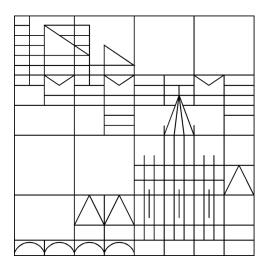
University of Konstanz Faculty of Humanities Department of Linguistics



Module Handbook

for the

Master's Programme in Speech and Language Processing

October 2018

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I. General Information

Participants in the Master's Programme Speech and Language Processing (SLP) acquire knowledge and skills to deal with theoretical and practical/applied aspects of human and machine language processing. Human and machine language processing are related in terms of understanding fundamental properties of language and how these can be represented, modelled and manipulated. Insights from human language processing (HLP) inform machine language processing (MLP) and vice versa. However, HLP has a greater relevance for psycholinguistic and neurolinguistic models of language and applications in cognitive research and treatments, whereas MLP is more relevant for computational models and applications in the area of digital technology. In view of our increasingly global and digital society, understanding models of language processing from both a theoretical and applied perspective has become more crucial than ever. The skills and abilities acquired as part of this Master programmer can be used to build either an academic career or as the foundation for practical, application oriented work outside of academia.

II. Targeted Qualifications

Specialized goals of the Programme

Participants become acquainted with current and foundational research in HLP and MLP. In HLP this includes work within psycholinguistics (including language acquisition) and neurolinguistics. In MLP this includes symbolic and statistical models for language processing. After having acquired foundational knowledge in both areas, students are expected to deepen their studies in either HLP or MLP. The intention is to make students aware of underlying commonalities in HLP and MLP and of issues of language processing in general, but then to let students diverge in their interests. Students more interested in experimental work will follow the HLP track and learn practical experimental methodology as part of this track. Students more interested in computational applications will follow the MLP track and learn practical programming and software engineering as part of this track.

General goals of the Programme

Working in the specialized field of language processing, participants furthermore develop the following, non-specialized skills:

- They can follow presentations of complex material.
- They can critically analyse various forms of texts and presentations.
- They can present specialized subject matter to non-specialists in an understandable way.
- They can construct logically coherent arguments.

- They can analyse, manage and visualize complex data.
- They can extract the essential points from a complex assemblage of information.
- They can work independently and can articulate an original research question.
- They can apply knowledge about language processing to actual problems outside of academic settings.

III. Outline of the Master's Programme in Speech and Language Processing

For the Master's Programme Speech and Language Processing, 120 ECTS¹ credits (cr) must be earned, of which 102 cr shall be obtained in the core areas and 18 cr in a supplementary area (Module 7). There are two tracks within the Master's Programme: Human Language Processing (HLP) and Machine Language Processing (MLP). Core foundational and methodological courses are shared across the tracks, but students are expected to emphasize either the HLP or the MLP track by choosing a majority of courses within that track. Recommendations for each track are set out clearly below. In both tracks, the courses focus on both theory and practice.

Acquiring competence in statistical methods and programming is required. Statistical methods are offered in Module 2. A programming language can be learned as part of Modules 2, 4 or 7.

Module 1: Core Areas of Linguistics, 18 cr

Lehrveranstaltung	P/WP	Art	PL	cr	ENR	Sem
Core Components of Language A	Р	S	HA/KI/Ref/So	9	yes	1-2
Core Components of Language B	Р	S	HA/KI/Ref/So	9	yes	1-2

This module contains theoretical linguistic courses that focus on the core areas of phonetics, phonology, morphology, syntax, semantics and pragmatics. Students are advised to take courses which reflect their interests. Students focusing on MLP are further advised to take a course that focuses on a computationally realistic theory of syntax. Currently a course meeting this requirement is one focusing on Lexical Functional Grammar (LFG).

The courses can be taken in any order. The module is completed when 18 cr from different module units have been earned.

Module 2: Methods, 12 cr

P/WP PLLehrveranstaltung Art ENR cr Sem Р S **Statistics** ΚI 6 1-2 yes WP S 1-2 **Experimental Methods** 6 var yes

ECTS = European Credit Transfer System; P/WP = required/elective; Art = type of course (with VL = lecture, Sem = seminar; Ü = practice tutorial); PL = performance assessment (with HA = term paper; KI = written exam; Ref = oral presentation; So = other form of written/oral performance assessment; var = variable: the performance assessment will be announced by the instructor at the beginning of the course); SL = coursework; cr = ECTS credits; ENR = relevant for final grade; Sem = semester in which the course is offered.

¹ Explanations of the abbreviations:

Text Processing/Corpus linguistics (e.g., with Perl/Python)	WP	Sem	var	6	yes	1-2
Further current linguistic methodology (e.g., logic, language documentation)	WP	Sem	var	6	yes	1-2

Module 2 provides students with the necessary methodological competence for research into language processing. All students must take statistics. Students pursuing the HLP track are advised to additionally take experimental methods in order to learn how to set up an experiment. Students pursuing the MLP track are advised to additionally take the text processing course in order to learn a programming language. The module is completed when 12 cr from different module units have been earned.

Module 3: Foundations, 18 cr

Lehrveranstaltung	P/WP	Art	PL	cr	ENR	Sem
Machine Language Processing	Р	S	HA/KI/Ref/So	9	yes	1-2
Human Language Processing	Р	S	HA/KI/Ref/So	9	yes	1-2

This module teaches students foundational results in the areas of MLP and HLP and provides them with an overview of the current state of the art. The module is completed when 18 cr have been earned, i.e. 9 cr per unit.

Module 4: Machine Language Processing, 18/9 cr

Lehrveranstaltung	P/WP	Art	PL	cr	ENR	Sem
Grammar Development	WP	S	HA/KI/Ref/So	9	yes	2-3
Computational Semantics	WP	S	HA/KI/Ref/So	9	yes	2-3
Topics in Current Research	WP	S	HA/KI/Ref/So	9	yes	2-3

This module dives deeper into issues within MLP. Students pursuing the MLP track have completed this module when 18 cr have been earned from different module units. Students pursuing the HLP track have completed this module when 9 cr have been earned.

Module 5: Human Language Processing, 18/9 cr

Lehrveranstaltung	P/WP	Art	PL	cr	ENR	Sem
Language Acquisition	WP	S	HA/KI/Ref/So	9	yes	2-3
Psycholinguistics	WP	S	HA/KI/Ref/So	9	yes	2-3
Neurolinguistics	WP	S	HA/KI/Ref/So	9	yes	2-3

Topics in Current Research	WP	Sem	HA/KI/Ref/So	9	yes	2-3
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This module dives deeper into issues within HLP. Students pursuing the MLP track have completed this module when 9 cr have been earned. Students pursuing the HLP track have completed this module when 18 cr have been earned from different module units.

Module 6: Practical/Experimental Applications and Research, 6 cr

Lehrveranstaltung	P/WP	Art	StL	cr	ENR	Sem
Research Seminar	Р	S	Ref/So	3	no	3-4
Practical/Experimental Research or Internship	Р	S	РВ	3	no	3-4

Students are given the chance to pursue independent research in this module and to conduct practical or application oriented work. The module is completed when 6 cr have been earned.

Module 7: Neighboring Areas, 18 cr

Lehrveranstaltung	P/WP	Art	StL	cr	ENR	Sem
Linguistics	WP	S	var	3-9	no	1-4
Language Courses or Key Qualifications	WP	Ü	var	3-9	no	1-4
Related disciplines (e.g., Computer Science, Psychology, Philosophy)	WP	S/VL	var	3-9	no	1-4

This module extends the interdisciplinary dimension of the programme. Students are given the opportunity to take relevant courses in other master's programmes in linguistics or in other areas, or to learn a foreign language or acquire further key skills. Courses from Computer Science, Mathematics, Philosophy and Psychology would be particularly relevant. The module is completed when 18 cr have been earned.

Module 8: Master's Thesis and Oral Examination, 21 cr

Leistung	P/WP	Art	PL/SL	cr	ENR	Sem
Thesis	Р		Master's thesis	18	yes	4
Oral Examination	Р		Oral examination	3	yes	4

Successful completion of the master thesis and the oral examination are the final module of the programme. The module is completed when 21 cr have been earned.

IV. Module Descriptions

Module 1: Core Areas of Linguistics

Applicab	ility			Module Title					
MA Speed	ch and	Language	Processing	Module 1: Core Areas of Linguistics					
Credits	18	Duration	2 semesters	s Module Contribution to the Final Grade 18,75 %					
Module G	arade	The grade for the module from the arithmetic mean of the two module grades, weighter							
		according to ECTS credits from each of the two module sections.							
Module		Core Com	ponents of Lan	guage A (Phonetics, Phonology or Morphology)					
Sections		Core Com	ponents of Lan	guage B (Syntax, Semantics or Pragmatics)					
Learning		Students v	work on topics v	within the core components of grammar (phonetic	s, phonology,				
Outcome	s	morphology, syntax, semantics, and pragmatics). They become familiar with foundational							
		and currer	and current theoretical linguistic analyses and are able to independently pursue research						
		in the core	e area.						

Module Section: Core	e Components of Language A
Lecturer	academic staff
Content of	This module section deals primarily with phonetics, phonology, morphology, and
Teaching	their interfaces. Students become familiar with foundational and current theoretical
	linguistic analyses and core empirical phenomena and are able to independently
	pursue research in the chosen core area.
Teaching Methods/	seminar / 2 hours
Hours per Week	
Workload	270 hours
Credits	9
Type of	variable: presentations, examinations and papers required for successful
Assessment	completion of the course are announced at the beginning
Recommended	
Background	
Language	English or German
Frequency Offered	winter semester and summer semester
Recommended	1 or 2
Semester	

Compulsory /	compulsory
Optional	

Module Section: Core	Components of Language B
Lecturer	academic staff
Content of Teaching	This module section deals primarily with syntax, semantics, pragmatics, and their interfaces. Students become familiar with foundational and current theoretical linguistic analyses and core empirical phenomena and are able to independently pursue research in the chosen core area.
Teaching Methods /	seminar / 2 hours
Hours per Week	
Workload	270 hours
Credits	9
Type of Assessment	variable: presentations, examinations and papers required for successful
	completion of the course are announced at the beginning
Recommended	
Background	
Language	English or German
Frequency Offered	winter semester and summer semester
Recommended	1 or 2
Semester	
Compulsory /	compulsory
Optional	

Module 2: Methods

Applicability				Module Title		
MA Speech and Language Processing		rocessing	Module 2: Methods			
Credits	12	Duration 2 semesters		Module Contribution to the Final Grade	12,5 %	
Module G	rade	The grade for the module is the arithmetic mean of the two module grades, weighted				
	according to ECTS credits		ECTS credits	s, from each of the two module sections.		
Module		Statistics				
Sections Experime		Experiment	xperimental Methods			
	Text Processing/Corpus Li		ssing/Corpus L	inguistics		

	Further Current Linguistic Methodology
Learning	Students become competent in state-of-the art methodology in language processing.
Outcomes	This includes quantitative methods and statistics to analyse linguistic data and the
	learning of a programming language for automatic text processing.

Module Section: Stati	stics	
Lecturer	Bettina Braun, Carsten Eulitz or N.N.	
Content of Teaching	ching Students are introduced to statistical methodology relevant in particular for understanding language processing research. This includes the analysis of dependent and independent variables, classic parametric and non-parametric tests, single and multifactorial analyses and hierarchical regression models. The course content provides information and methodological competence. Given the current state of the art, it is near to impossible to do meaningful work within language processing without this methodological competence and this course provides the necessary knowledge including the usage of common software packages.	
Teaching Methods / Hours per Week	seminar / 3 hours	
Workload	180 hours of which 45 hours are the actual course, 115 hours are concerned with course work and 20 hours constitute the preparation time for the exam	
Credits	6	
Type of Assessment	exam; oral presentations, written exercises	
Recommended Background		
Language	English or German	
Frequency Offered	winter semester	
Recommended Semester	1 or 2	
Compulsory / Optional	compulsory	

Module Section: Experimental Methods		
Lecturer	Bettina Braun, Carsten Eulitz or Tanja Kupisch	
Content of	This course covers quantitative, qualitative, and experimental methods in	
Teaching	research on human language processing. Students will be introduced to and	

	familiarized with data elicitation and collection methods and psycholinguistic and		
	neurolinguistic methodology with respect to language production and		
	processing. Students will learn how to design and conduct their own experiment		
	as a result of this course. This course is highly recommended for students		
	pursuing the HLP track as it teaches a core skill relevant for HLP research.		
Teaching Methods /	seminar / 3 hours		
Hours per Week			
Workload	180 hours of which 45 hours are the actual course, 115 hours are concerned		
	with course work and 20 hours constitute the preparation time for the exam		
Credits	6		
Type of	variable: presentations, examinations and papers required for successful		
Assessment	completion of the course are announced at the beginning		
Recommended			
Background			
Language	English		
Frequency Offered	winter semester		
Recommended	1 or 2		
Semester			
Compulsory /	optional		
Optional			

Module Section: Tex	Module Section: Text Processing/Corpus Linguistics			
Lecturer	Miriam Butt or N.N.			
Content of	In this course students learn how to extract linguistic information from a			
Teaching	text/corpus via a programming language that is particularly suited for this task (e.g., Perl or Python). Students learn programming skills and apply these towards working with text language corpora. At the end of the course, students are able to write programs independently and extract relevant information from a text/corpus in order to solve a research question. This course is highly recommended for students pursuing the MLP track as it teaches a core skill relevant for MLP research.			
Teaching Methods / Hours per Week	seminar / 3 hours			
Workload	180 hours of which 45 hours are the actual course, 135 hours are concerned with course work and the programming of an independent project			

Credits	6
Type of	written exercises and a final project
Assessment	
Recommended	
Background	
Language	English or German
Frequency Offered	summer semester
Recommended	1 or 2
Semester	
Compulsory /	optional
Optional	

Module Section: Further Current Linguistics Methodology			
Lecturer	academic staff		
Content of	This module unit introduces further linguistic methodology. Topics may vary and		
Teaching	include areas such as logic, language documentation or Praat scripting.		
Teaching Methods /	seminar / 3 hours		
Hours per Week			
Workload	180 hours of which 45 hours are the actual course, 115 hours are concerned		
	with course work and 20 hours constitute the preparation time for the exam		
Credits	6		
Type of	variable: presentations, examinations and papers required for successful		
Assessment	completion of the course are announced at the beginning		
Recommended			
Background			
Language	English or German		
Frequency Offered	winter semester		
Recommended	1 or 2		
Semester			
Compulsory /	optional		
Optional			

Module 3: Foundations

Applicability				Module Title	
MA Speed	MA Speech and Language Processing		Processing	Module 3: Foundations	
Credits	18	Duration 2 semesters		Module Contribution to the Final Grade	18,75 %
Module Grade		The grade for the module is the arithmetic mean of the grade for each of the two module sections, weighted according to ECTS credits.			
Module Sections Machine Language Proces		0 0			
Learning Outcome	s	Students are provided with an overview of the most important foundational and currer topics within human and machine language processing.		ind current	

Module Section: Ma	chine Language Processing
Lecturer	Miriam Butt or N. N.
Content of	Current and classic topics within natural language processing are discussed. This
Teaching	includes speech and text processing and an overview of symbolic and statistical
	approaches that have been used to build applications such as speech recognition
	systems, morphological analyzers, part-of-speech taggers, parsers and
	generators, semantic analysis systems and dialog systems.
Teaching Methods	seminar / 2 hours
/ Hours per Week	
Workload	270 hours of which 30 are the actual course, 180 are needed for the course
	work and 60 hours are needed for exam preparation
Credits	9
Type of	variable: presentations, examinations and papers required for successful
Assessment	completion of the course are announced at the beginning
Recommended	
Background	
Language	English or German
Frequency Offered	winter semester
Recommended	1 or 2
Semester	
Compulsory /	compulsory
Optional	

Module Section: Hu	man Language Processing		
Lecturer	Carsten Eulitz or N. N.		
Content of	Current and classic topics within human language processing are discussed.		
Teaching	This includes speech perception, speech production and language acquisition.		
	Results and insights from both psycholinguistics and neurolinguistics are		
	considered. At the end of the course, students should be knowlegeable about		
	foundational research and current debates within human language processing.		
Teaching Methods	seminar / 2 hours		
/ Hours per Week			
Workload	270 hours of which 30 are the actual course, 180 are needed for the course		
	work and 60 hours are needed for exam preparation		
Credits	9		
Type of	variable: presentations, examinations and papers required for successful		
Assessment	completion of the course are announced at the beginning		
Recommended			
Background			
Language	English or German		
Frequency Offered	summer semester		
Recommended	1 or 2		
Semester			
Compulsory /	compulsory		
Optional			

Module 4: Machine Language Processing

Applicability				Module Title	
MA Speech and Language Processing		Processing	Module 4: Machine Language Processing		
Credits	18/9	Duration	2 semesters	Module Contribution to the Final Grade	18,75 %/
					9,4 %
ľ			is the arithmetic mean of the grade for each of the according to ECTS credits.	e two	
Module Section Grammar Development Computational Semantics Topics in Current Research		nal Semantics			

Learning	Students gain a deeper understanding of research in machine language processing
Outcomes	and learn how to write software that can parse and generate language with respect to
	morphology, syntax and semantics.

Module Section: Gr	Module Section: Grammar Development			
Lecturer	Miriam Butt or N. N.			
Content of	The course introduces students to grammar development and teaches students			
Teaching	to build a linguistically sophisticated parser and generator for a language of their			
	choice.			
Teaching Methods	seminar / 2 hours			
/ Hours per Week				
Workload	270 hours of which 30 are the actual course, 180 are needed for the course			
	work and 60 hours for the preparation of the final project			
Credits	9			
Type of	exercises and final project			
Assessment				
Recommended	A course on Lexical Functional Grammar within Module 1			
Background				
Language	English or German			
Frequency Offered	summer semester			
Recommended	2 or 3			
Semester				
Compulsory /	optional			
Optional				

Module Section: Computational Semantics			
Lecturer	Miriam Butt, Maribel Romero or N. N.		
Content of	Students are introduced to first order logic as required by semantic processing.		
Teaching	They learn how to express first order logic in the programming language Prolog		
	and learn how to build semantic representations compositionally from parsed		
	sentences. They also learn how to build a dialog system and the pitfalls involved		
	in pragmatic and logic processing.		
Teaching Methods	seminar / 2 hours		
/ Hours per Week			

Workload	270 hours of which 30 are the actual course, 180 are needed for the course work and 60 hours are needed for exam preparation
Credits	9
Type of	variable: presentations, examinations and papers required for successful
Assessment	completion of the course are announced at the beginning
Recommended	
Background	
Language	English or German
Frequency Offered	summer semester
Recommended	2 or 3
Semester	
Compulsory /	optional
Optional	

Module Section: Topics in Current Research			
Lecturer	Miriam Butt or N. N.		
Content of	The course is concerned with specialized topics of current interest.		
Teaching			
Teaching Methods	seminar / 2 hours		
/ Hours per Week			
Workload	270 hours of which 30 are the actual course, 180 are needed for the course		
	work and 60 hours are needed for preparation of exams/papers		
Credits	9		
Type of	variable: presentations, examinations and papers required for successful		
Assessment	completion of the course are announced at the beginning		
Recommended			
Background			
Language	English or German		
Frequency Offered	winter semester		
Recommended	2 or 3		
Semester			
Compulsory /	optional		
Optional			

Module 5: Human Language Processing

Applicability				Module Title	
MA Speech and Language Processing		rocessing	Module 5: Human Language Processing		
Credits	18/9	Duration	2 semesters	Module Contribution to the Final grade	18,75 %/
					9,4 %
			is the arithmetic mean of the grade for each of the daccording to ECTS credits.	: two	
Module		Language Acquisition			
Sections	Psycholinguistics		iistics		
		Neurolinguistics			
		Topics in Current Research			
Learning		Students gain a deeper understanding of research in human language processing,			
Outcome	S	including at different stages of development (child vs. adult) and as investigated from different methodological perspectives (psycholinguistic vs. neurolinguistic).			

Module Section: La	nguage Acquisition
Lecturer	Tanja Kupisch or N. N.
Content of	The course examines foundational and current language acquisition research,
Teaching	including results from multilingual acquisition. Students will read and discuss
	seminal papers. They will be familiarized with theoretical frameworks as well as
	empirical approaches.
Teaching Methods	seminar / 2 hours
/ Hours per Week	
Workload	270 hours of which 30 are the actual course, 180 are needed for the course
	work and 60 hours for the preparation of the exam
Credits	9
Type of	variable: presentations, examinations and papers required for successful
Assessment	completion of the course are announced at the beginning
Recommended	
Background	
Language	English or German
Frequency Offered	summer semester
Recommended	2 or 3
Semester	

Compulsory /	optional
Optional	

Module Section: Ps	ycholinguistics
Lecturer	Carsten Eulitz or N. N.
Content of Teaching	Current results and methods of psycholinguistic research are discussed and presented in this course. Students become familiar with the intricacies of the research questions and the methodology by conducting similar experiments. A particular focus is placed on reaction time experiments that have been used to investigate child language acquisition and human processing of both text and speech.
Teaching Methods	seminar / 2 hours
/ Hours per Week	
Workload	270 hours of which 30 are the actual course, 180 are needed for the course work including the experimental work and 60 hours for the preparation of the exam
Credits	9
Type of Assessment	variable: presentations, experiments, examinations and papers required for successful completion of the course are announced at the beginning
Recommended Background	
Language	English or German
Frequency Offered	winter semester
Recommended Semester	2 or 3
Compulsory / Optional	optional

Module Section: Neurolinguistics		
Lecturer	Carsten Eulitz or N. N.	
Content of	Current results and methods of neurolinguistic research are discussed and	
Teaching	presented in this course. Students read advanced papers and study theoretical	
	frameworks and empirical studies. A particular focus is placed on models of	
	language perception and language production. Hypotheses are developed for	

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Module Section: Topics in Current Research		
Lecturer	Carsten Eulitz or N. N.	
Content of	The course is concerned with specialized topics of current interest.	
Teaching		
Teaching Methods	seminar / 2 hours	
/ Hours per Week		
Workload	270 hours of which 30 are the actual course, 180 are needed for the course	
	work and 60 hours are needed for preparation of exams/papers	
Credits	9	
Type of	variable: presentations, examinations and papers required for successful	
Assessment	completion of the course are announced at the beginning	
Recommended		
Background		
Language	English or German	
Frequency Offered	summer semester	

Recommended	2 or 3
Semester	
Compulsory /	optional
Optional	

Module 6: Practical/Experimental Applications and Research

Applicability			Module Title		
MA Speech and Language Processing		Processing	Module 5: Practical/Experimental Applications at Research	nd	
Credits	6	Duration	2 semesters	Module Contribution to the Final Grade	
Module G	rade	The module	is not relevan	nt for the final grade.	
Module		Research Colloquium			
Sections		Practical/Experimental Research or Internship			
Learning		This module offers students the opportunity to identify their own research questions			questions
Outcome	s	and to conduct an experiment or a computational project to answer the research			e research
		question. The module is intended as a preparation for the writing of the Master's thesis.			
		It also offers them the opportunity to gain practical/applied experience in an on-going			n on-going
		project either at an institution external to the university or within on-going projects		projects at	
		the universi	ty.		

Module Section: Research Colloquium			
Lecturer	academic staff		
Content of	The research seminar is designed for advanced students within the master		
Teaching	programme. The course focuses on the latest research language processing.		
	Students review research papers and formulate research questions of their own,		
	discuss methodology and plan their own experiments or projects.		
Teaching Methods /	seminar / 2 hours		
Hours per Week			
Workload	90 hours of which 30 are the actual course and 60 are needed for the course		
	work		
Credits	3		
Type of	variable: presentations, examinations and papers required for successful		
Assessment	completion of the course are announced at the beginning		

Recommended	modules 1 – 5
Background	
Language	English or German
Frequency Offered	winter semester or summer semester
Recommended	3 or 4
Semester	
Compulsory /	compulsory
Optional	

Module Section: Pro	actical/Experimental Research or Internship
Lecturer	academic staff or N.N.
	In this module unit students can elect to conduct an independent experiment or a computational project under the supervision of an academic staff member at the university. Or they can elect to pursue an internship outside of the university and gain experience with practical/applied work in a non-academic setting. In either case, it is recommended that the work pursued could be used as preparatory for the Master's thesis.
Content of	
Teaching	
Teaching Methods	variable
/ Hours per Week	
Workload	180 hours
Credits	3
Type of	A certified internship report must be submitted.
Assessment	
Language	variable
Recommended Background	
Frequency Offered	winter semester or summer semester
Recommended Semester	3 or 4
Compulsory / Optional	compulsory

Module 7: Neighboring Areas

Applicability			Module Title		
MA Speed	MA Speech and Language Processing		Processing	Module 7: Neighboring Areas	
Credits	18	Duration	4 semesters	Module Contribution to the Final Grade	
Module G	Frade	The module	is not relevan	nt for the final grade.	
Module		Linguistics			
Sections		Related Disciplines (e.g., Computer Science, Psychology, Philosophy)			
		Language Courses and Key Qualifications			
Learning		This module extends the interdisciplinarity of the programme. Students can elect to			
Outcome	s	take courses in an area of interest or can decide to increase their skill set by taking			
		language courses or courses in key skills such as statistics, programming, academic			
		writing, etc.			

Module Sections: Linguistics			
Lecturer	academic staff		
Content of	Students attend relevant seminars from other linguistic master courses that are		
Teaching	of interest to them.		
Teaching Methods /	variable		
Hours per Week			
Workload	variable		
Credits	3-18		
Type of	variable: presentations, examinations and papers required for successful		
Assessment	completion of the course are announced at the beginning		
Recommended			
Background			
Language	variable		
Frequency Offered	winter semester and summer semester		
Recommended	1 to 4		
Semester			
Compulsory /	optional		
Optional			

Module Sections: Related Disciplines		
Lecturer	academic staff	
Content of	Students attend relevant seminars academic subjects of their interest.	
Teaching	Particularly relevant for language processing are courses from Computer	
	Science, Mathematics, Statistics, Philosophy and Psychology.	
Teaching Methods /	variable	
Hours per Week		
Workload	variable	
Credits	3-18	
Type of	variable	
Assessment		
Recommended		
Background		
Language	variable	
Frequency Offered	winter semester and summer semester	
Recommended	1 to 4	
Semester		
Compulsory /	optional	
Optional		

Module Sections: Language Courses and Key Qualifications		
Lecturer	variable	
Content of	Students attend courses which allow them to learn a foreign language or to add	
Teaching	to their key qualifications/skill sets such as statistics, programming, academic writing, etc.	
Teaching Methods /	as is common practice in the respective department or institute	
Hours per Week		
Workload	variable	
Credits	3-6	
Type of	variable	
Assessment		
Recommended		
Background		
Language	variable	

Frequency Offered	winter semester and summer semester
Recommended Semester	1 to 4
Compulsory / Optional	optional

Module 8: Master's Thesis and Oral Examination

Applicability				Module Title		
MA Speech and Language Processing			rocessing	Module 8: Master's Thesis and Oral Examination		
Credits	21	Duration	1 semester	Module Contribution to the Final Grade	21,8 %	
Module Grade		The master's thesis counts three times, the oral exam once for the final grade in this				
		module.				
Module		Master's Thesis				
Sections		Oral Examination				
Learning		In this module, students should show that they can apply the knowledge, the				
Outcomes		methodological competence and skill sets acquired in course of their studies.				

Module Section: Master's thesis				
Lecturer	academic staff			
Content of	The master's thesis is written.			
Teaching				
Teaching				
Methods / Hours				
per Week				
Workload	4 months for the master thesis, 50-60 pages			
Credits	18			
Type of	Master's thesis			
Assessment				
Recommended	50 % of the examination credits			
Background				
Language	English or German			

Frequency Offered	winter semester and summer semester
Recommended Semester	4
Compulsory / Optional	compulsory

Module Section: Oral examination				
Lecturer	academic staff			
Content of	colloquium on the master's thesis			
Teaching				
Teaching	colloquium / 2 hours			
Methods / Hours				
per Week				
Workload	90 hours			
Credits	3			
Type of	oral examination			
Assessment				
Recommended	all coursework and examinations			
Background				
Language	English or German			
Frequency	winter semester and summer semester			
Offered				
Recommended	4			
Semester				
Compulsory /	compulsory			
Optional				