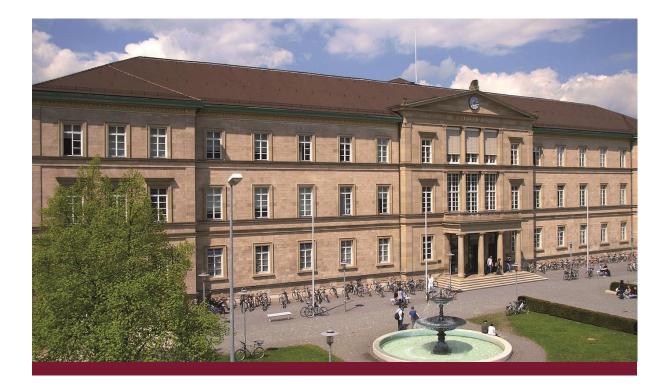
EBERHARD KARLS UNIVERSITÄT TÜBINGEN



Handbook Computational Linguistics Master of Arts

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Faculty of Humanities

Department of Modern Languages Institute of Linguistics



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1 Program goals and content

The International Studies in Computational Linguistics program is an international, Englishlanguage degree program with a strong research focus. Following a Bachelor's degree in the same discipline, the program is designed for students with a good Bachelor's degree in Computational Linguistics. Applicants with a good result in their Bachelor's degree focusing on theoretical/formal Linguistics or Informatics may also enroll in the program after a successful review of the quality and affinity of their degrees. However, they are admitted on condition that they fulfill certain requirements for material not covered in their prior studies; these conditions are met by completing the module Supplementary area: Basics. A further requirement for enrollment is a knowledge of English at least of level B2 of the Common European Framework of Reference for Languages must be documented. This must be in the form of an internationally-accepted test (TOEFL, IELTS, etc.). Applicants with a German school leaving certificate (Abitur) and applicants whose native tongue is English or who have a leaving certificate from an English-language secondary school do not need additional proof, as the B2 level is thereby shown.

The M.A. in Computational Linguistics program allows students to obtain long-term skills aimed at obtaining and increasing knowledge in a systematic and critical way, and justifying a general scientifically-based occupational qualification for students in the field of Computational Linguistics. The Computational Linguistics program teaches subject skills in close cooperation with theory and practice in an interdisciplinary context of Linguistics, Psychology, and Informatics.

On the theoretical side, the program offers all the areas of formal linguistic modelling, whereby the focus is primarily on the morphology, syntax, semantics, and formal pragmatics of the written language, also considering the interface with the spoken language. The computational linguistic integration of linguistic modelling results in solid findings in formalization and annotation, the automatization of analyses, and the necessary computational linguistic resources. Upon successful completion of the program, the student is able to employ computational linguistic methods and resources to the analysis of written language in a variety of language corpora and applications. One core area in Tübingen is current computational linguistic methodology (including statistical and rule-based processes and machine learning) and the necessary infrastructure, as well as close integration with linguistic research and applications in the fields of Digital Humanities, automated text comprehension, second language acquisition, and Education.

Graduates are able to identify complex problems in the area of Computational Linguistics, to closely define them, and to process them independently using computational linguistics methods. In doing so, they are able to locate the relevant academic literature, fully understand it, and to assess it critically. They have the capacity to make theoretically coherent arguments which they can apply to a variety of language data and competently judge the results. Graduates are able to evaluate theoretical and methodological assumptions in current research and can make well-founded assessments of independently-developed hypotheses.

On the practical side, the project-oriented advanced seminars in Computational Linguistics build upon good programming abilities in at least one object-oriented programming language from the Bachelor's program and put graduates in a position to independently specify complex computational linguistics projects and to apply current research to both realize and evaluate such projects.

2 General information

2.1 Structure

The M.A. of Computational Linguistics comprises 120 credit points which are distributed over two thematic areas and the final module. The regular duration of study including the Master's thesis is four semesters. In principle, there is no set order in which the modules ISCL-MA-01 to ISCL-MA-06 have to be completed. However, courses may require specific preconditions for participation. Likewise, course requirements that may have been defined upon enrollment have to be observed.

2.2 Study areas and modules

The program consists thematically of two study areas: I, the *Computational Linguistics core,* and II, the *Supplementary area*, which complementary classes are organized into basics, interdisciplinary context, and practical workload. Each of the two study areas consists of three modules each of 15 credit points.

2.3 Credit points

Credit points are intended to quantify and make internationally comparable the average workload a student has to manage to pass a module. One credit point is the equivalent of approximately 30 hours of work. One credit point is defined as one point under the European Credit Transfer System (ECTS). Sixty credits per year, i.e., 30 per semester, are required to complete a degree in the minimum prescribed time.

Credit points include both actual teaching time in class - contact hours - as well as private study (usually preparation and reviewing of the material taught, preparation for presentations in class, semester papers, and the Master's thesis).

2.4 Assessed and non-assessed coursework

Various forms of coursework must be completed for credit points to be awarded. This includes assessment and ungraded coursework.

Assessed work is generally given a grade and counts as, or counts towards, the grade for the module. The assessed work required for each module in the Computational Linguistics study program is set out in the module handbook. Assessment may be made in the form of a grade for performance either at the end of the learning process in a module (summatively - e.g., as an exam or assignment = result = the module grade) or it may be in several stages within a module (formatively - e.g., as a programming project or analysis task. Assessed work from each phase of assessment is incorporated into the module grade, whereby the phases may be weighted differently. A graded module has been passed if the module is graded "sufficient" (4.00) or better; it is possible to fail. The number and timing of any repeat exams permitted are regulated in the General Provisions of the exam regulations.

Non-graded coursework is noted as "completed" or "not completed". However, non-graded coursework has only been completed when the responsible teacher attests sufficient quality, i.e., well-founded academic feedback by the teacher is possible. Non-graded coursework has no influence on the module grade. Non-graded coursework may be, e.g., presentation, abstract, programming project, analysis, experiment.

In the obligatory courses offered once a year, a retake exam is generally offered in the week before the next semester starts so that students who did not pass an exam have a second opportunity to pass the exam in a timely manner. Where successful, they thus can take courses building on this prerequisite without delay. Alternatively, students can also choose to repeat a course in the following year.

3 Program structure

3.1 Overview of program

Module number	Compul- sory/ Required elective	Module name	Recom- mended se- mester	LP
ISCL-MA-01	Compulsory	Computational Linguistics core area: Orientation	1	15
ISCL-MA-02	Compulsory	Supplementary area: Basics	1	15
ISCL-MA-03	Compulsory	Computational Linguistics core area: In depth	2	15
ISCL-MA-04	Compulsory	Supplementary area: Interdisciplinary context	2	15
ISCL-MA-05	Compulsory	Computational Linguistics core area: Profiling	3	15
		a): Supplementary area: Practical		45
ISCL-MA-06	Compulsory	b): Supplementary area: Interdisciplinarity in depth	3	15
ISCL-MA-07	Compulsory	Final module	4	30

3.2 Overview by area

Study area	No.	Module name:		Σ LP				
	ISCL-MA-01	Computational Linguistics Orientation	15				15	
Computational Linguistics core area	ISCL-MA-03	Computational Linguistics In depth		15			15	
	ISCL-MA-05	Computational Linguistics Profiling			15		15	
	ISCL-MA-02	Supplementary area: Ba- sics	15				15	
Supplementary area	ISCL-MA-04	Supplementary area: Interdisciplinary context		15			15	
	ISCL-MA-06	Supplementary area: Practical or Interdisciplin- arity in depth			15		15	
Master's thesis + examina- tion	ISCL-MA-07	Final module				30	30	
			30	30	30	30	120	

	Кеу
Form of evalua- tion:	b = graded; ub = not graded (pass/fail)
Assessment type:	H=assignment; R=presentation, K=written exam; A=analysis-/program- ming task, M = oral examination, MA=Master's thesis
Duration:	Duration of exam in min.
Weighting	In courses = weighting of the exam grade as part of module grade In modules = weighting of the module grade for the final grade
Credit hours during semes- ter	Credit hours/ week
Status:	o = obligatory; f = facultative (not compulsory)
Class type:	VL=lecture, S=seminar, K=colloquium, P=practical work):
Credit points:	Credit points under European credit transfer system (ECTS)

4 Description of modules

4.1 Module of the core area Computational Linguistics

Module no.: ISCL-MA-01	Module name: Computational Linguistics core area:Module type CompulsoryOrientationCompulsory								
ECTS credits	15								
Workload - contact hours - private study	Workload: 450 hours	Contact hours: 120 hours / 8 credit hours per weekPrivate study: 330 hours							
Duration of module	1-2 semeste	rs							
Frequency	each semes	ter							
Language of in- struction	English								
Teaching formats	Learning for group work, written tests	Advanced seminars Learning formats within the seminars may be: Class discussion, individual work, group work, presentations, exposes, programming tasks, written analysis exercises, written tests, accompanying portfolios, etc. The concrete forms of learning are de- cided by the seminar teacher.							
Content of module	ysis skills de more advand ule are typic of Linguistics Topics dealt • Ad • Co • Co • Le • So	builds upon the basic linguistic and/or in veloped at the Bachelor's level. It lays to ced questions in Computational Linguist ally offered in both of the computational s and provide an overview of one of the with may include the following basic con dvanced Parsing Techniques computational Semantics computational Morphology exicon and Grammar Formalisms urvey of NLP Applications ymbolic Methods in Computational Lingu achine Learning for Natural Language	he groundwork for dealing with ics. The seminars in this mod- linguistics areas of the Institute larger fields within the subject. mputational linguistics fields:						
Goals	Students who have completed this module have a solid knowledge of the relevant fields and concepts in Computational Linguistics and the subject's methodology, building upon the contents of their Bachelor's studies, and can explain them to a specialist audience in an appropriately structured oral presentation. First independ- ent programming projects are based on core competence in programming and its application develops these both skills and the students' knowledge of basic algo- rithms and resources. Students process a relevant problem independently and are able to present it in methodologically correct way in an appropriate written or oral form.								

Requirements for the awarding of credit points/ grad- ing (and weighting, where appropriate)	Course	Class type	Credit hours in se-	Ъ	Assessment type	Assessment dura- tion	Grading system	Calculation of mod- ule grade		
	Advanced seminar	S	2/ 4	6 (3/6)		-	ub	-		
	Advanced seminar	s	2/ 4	9 (3/6/9)	various	-	Ь	100%		
	In advanced seminars in which the module examination is taken, grading is usu carried out on the basis of a presentation and a written assignment. Depending the topic, there may be an analysis or programming task, an exam, or an oral ex- instead of a written assignment. The precise form of examination is decided by relevant member of academic staff.									
Serves as:	Basis for mo	dules	ISCL	MA-03, ISCL	-MA-05 and IS	CL-MA-0	7.			
Requirements for admission	none									

Module no.: ISCL-MA-03	Module na Computatio	me: nal Linguistics core area: In depth	Module type Compulsory						
ECTS credits	15								
Workload - contact hours - private study	Workload: 450 hours	Contact hours: 120 hours / 8 credit hours per week	Private study: 330 hours						
Duration of module	1-2 semeste	1-2 semesters							
Frequency	each semes	ter							
Language of in- struction	English								
Teaching formats	group work, written tests	eminars mats within the seminars may be: Class presentations, exposes, programming task , accompanying portfolios, etc. The concr seminar teacher.	ks, written analysis exercises,						

Content of module	 The seminars in this module focus on more specific problems and fields of Computational Linguistics, giving students a more comprehensive knowledge of methodology, resources, and applications. The seminars in this module are typically offered in both of the computational linguistics areas of the Institute of Linguistics. Topics dealt with may include the following specific computational linguistics fields, which are here given more detailed and in-depth treatment: Developing NLP resources for lesser-resourced languages Corpus Annotation: Linguistic Foundations and Computational Linguistic Analysis Computational Analysis of Discourse Cognitive Models of Language Processing Models of Natural Language in Computational Linguistics NLP Applications: Methods, Resources, and Evaluation Computational Linguistic Analysis in Learning and Education NLP workflows, pipelines and toolkits, Machine Translation Information Retrieval Intelligent Computer-Assisted Language Learning 											
Goals	sources in fit standing of t gramming la methodology priately struct Building on t free to const and integrate cess a releva	Students obtain in-in-depth knowledge of the problems, methodology, and re- sources in fields of Computational Linguistics, both in regard to a precise under- standing of the material as well as of the application of specialized algorithms, pro- gramming languages, toolkits, and advanced analysis and evaluation methodology. They are able to explain them to a specialist audience in an appro- priately structured oral presentation. Building on the initial project experience obtained in ISCL-MA-01, students are free to constructively choose advanced algorithms and resources or to implement and integrate them into their own independently-developed projects. Students pro- cess a relevant problem independently and are able to present it in a methodologi- cally correct way in an appropriate written or oral form.										
Requirements for the awarding of credit points/ grad- ing (and weighting, where appropriate)	Name of module	Class type	Credit hours in se- mester	Ъ	Assessment type	Assessment dura- tion	Grading system	Calculation of mod- ule grade				
	Advanced seminar	S	2/4	6 (3/6)		-	ub	-				
	Advanced seminar	s	2/4	9 (3/6/9)	various	-	b	100%				
	In advanced seminars in which the module examination is taken, grading is usually carried out on the basis of a presentation and a written assignment. Depending on the topic, there may be an analysis or programming task, an exam, or an oral exam instead of a written assignment. The precise form of examination is decided by the relevant member of academic staff. The total amount of credits needed can be achieved by taking several advanced seminars.											
Serves as:	Basis for mo	dules	SISCL-N	1A-03, ISCL-M	A-05 and ISCI	MA-07						
Requirements for admission	ISCL-MA-01											

Module no.: ISCL-MA-05	Module name: Computational Linguistics core area: Profil- ingModule type Compulsory								
ECTS credits	15								
Workload - contact hours - private study	Workload: 450 hours	Contact hours: 120 hours / 8 credit hours per week	Private study: 330 hours						
Duration of module	1-2 semeste	rs							
Frequency	each semes	ter							
Language of in- struction	English								
Teaching formats	group work, written tests	eminars mats within the seminars may be: 0 presentations, exposes, programming , accompanying portfolios, etc. The o seminar teacher.	g tasks, written analysis exercises,						
Content of module	Computation to investigate ule are typic of Linguistic versity of Ti current com core researd international C C C C C C C C C C C C C C C C C C C	is in this module focus on the develop hal Linguistics. The student learns to e them successfully using the latest re- ally offered in both of the computation is and are often characterized by a di- ibingen. Accordingly, topics in this r putational linguistics fields; the selec- ch in the discipline of Computational context: urrent Topics in Statistical Machine T computational Approaches to Text Sim- orpus Annotation of Information Strue omputational Approaches to Language tegrated Models of Processing LP supporting Noticing and Awareness econd Language Acquisition anguage Technology for Educational dvanced Distributional Semantics cientific Visualization of Language Da- urrent Topics in Machine Learning for	a independently define issues and esearch. The seminars in this mod- hal linguistics areas of the Institute irect link with research at the Uni- module may include the following tion is oriented along the lines of I Linguistics in Tübingen and the translation oplification cture ge Variation and Stylometrics ss in Assessment						
Goals	Students learn to define relevant issues and on the basis of current research and to make an appropriate selection of methods and resources in order to successfully investigate these issues. This means, along with analytical competence, they also develop the conceptual and practical ability to specify their own projects, to carry them out using current resources and algorithms and to evaluate them appropriately in publications. Students are able to discuss and present in a proper structure both orally and in written form the knowledge they have gained in a methodologically correct way, and in a way which is appropriate to the material, before a specialist audience.								

Requirements for the awarding of credit points/ grad- ing (and weighting, where appropriate)	Name of module	Class type	Credit hours in se-	ЧŢ	Assessment type	Assessment dura- tion	Grading system	Calculation of mod- ule grade		
	Advanced seminar	s	2/ 4	6 (3/6)		-	ub	-		
	Advanced seminar	s	2/ 4	9 (3/6/9)	various	-	Ь	100%		
	In advanced seminars in which the module examination is taken, grading is usually carried out on the basis of a presentation and a written assignment, whereby in this advanced module an independent project or program development often provides the basis of the written assignment. The precise form of examination is decided by the relevant member of academic staff.									
Serves as:	Basis for mo	dule	ISCL-	MA-07.						
Requirements for admission	ISCL-MA-01	, ISC	L-MA	-03						

4.2 Modules in the supplementary area

Module no.: ISCL-MA-02	Module name: Supplementary area	: Basics			dule type npulsory						
ECTS credits	15										
Workload - contact hours - private study	Workload: 450 hours	Contact hou 120 hours / week	rs: 3 credit hours		ate study: hours						
Duration of module	1-2 semesters										
Frequency	Each semester Howev per academic year.	er, courses su	bject to admi	ssion restrictic	ns are offer	ed only once					
Language of in- struction	English										
Teaching formats	Learning formats withi work, presentations, m tests, accompanying p	Introductory seminars, advanced seminars Learning formats within the seminars may be: Class discussion, individual work, group work, presentations, moderation of meetings, exposés, written analysis exercises, written tests, accompanying portfolios, etc. The concrete forms of learning in each class are de- cided by the relevant teacher.									
Content of module	This first module in the the core areas of Comp Most of the students s gram on condition that which was identified as with a first degree in Li the field of Informatics to be completed is ma degree prior to enrolme together with the enroli- cated as admission red the usual duration of the part of the admission re- sites are met.	tart this Intern they take intro missing durin nguistics, this must take Lin ide within the ent in the MA p ment documen quirements de he MA degree nust be taken	uistics. ational Studie oductory semi g the affinity tr is usually pro- guistics cours framework o program and i nts. The numl pend on the s by one or tw the first time	es in Computa nars in which t est of the quali- ogramming cou- ses. The decis f the affinity a s communicate oer and the co- student's back vo semesters. the course is Linguistics, th	tional Lingu hey will lear fying degree urses, while ion on whic nd quality te ed to the stu ntents of the ground and The course offered, and	istics MA pro- n the material . For students students from h courses are est of the first dent in writing courses indi- may lengthen is required as the prerequi-					
Goals	ods, and practical work are familiar with the fol - Programming - Linguistics ba - Computationa Students are able to di	Students strengthen and supplement their understanding of the basics of content, meth- ods, and practical work for MA studies in Computational Linguistics. In particular, they are familiar with the following: - Programming basics - Linguistics basics (semantics, syntax, phonology) - Computational Linguistics basics Students are able to discuss and present in an appropriate structure both orally and in written form the knowledge they have gained.									
Requirements for the awarding of credit points/ grad- ing (and weighting, where appropriate)	Course	Class type Credit hours in semester	Ъ	Assessment type	Grading system	Calculation of module grade					

Requirements for admission

none

	Intro. or adv. seminar	S/ V	2/4	6 (3/6)		ub			
	Intro. or adv. seminar	S/ V	2/4	9 (3/6/9)	various	b	100%		
	In introductory seminars grading is usually carried out based on exercises and a exam; in advanced seminars grading is usually carried out based on a presentation written assignment, however there may be an analysis or programming task, written or oral exam, depending on the topic. The precise form of examination is decided relevant member of academic staff. Specific requirements set out in the admission must be completed and graded. The courses required as part of the admission m taken the first time the course is offered, and the prerequisites are met. They are concording to the complexity of the competencies to be acquired, maximally with 1 Depending on the student's background, the courses required for admission to ensufficient basis for the CL MA degree may lengthen the usual duration of the MA of by one or two semesters.								
	Students with a Lingui BA-01 (8 CP) and ISCI a total of 15 CP. A mor- be found in the module tics.	BA- e deta	04 (7 CF ailed des	P), which are scription of mo	integrated into odules ISCL-BA	module ISC -01 and IS	CL-MA-02 with CL-BA-04 can		
	Students with a Computer Science background are usually required to complete module ASW-BA-01 (3 CP) and to select two modules out of modules ASW-BA-04, ASW-BA-05, ASW-BA-07 (6 CP each). The three modules will then be integrated into module ISCL-MA-02 with a total of 15 CP. A more detailed description of modules ASW-BA-01, ASW-BA-04, ASW-BA-05 and ASW-BA-07 can be found in the module handbook of the Bachelor degrade program Computational Linguistics.								
Serves as:	Basis for modules ISCI				ISCL-MA-07.				

Module no.: ISCL-MA-04	Module name: Supplementary area: Inte	Module type Compulsory			
ECTS credits	15				
Workload - contact hours - private study	Workload: 450 hours	Private study: 330 hours			
Duration of module	1-2 semesters				
Frequency	Each semester				
Language of in- struction	English				
Teaching formats	Advanced seminars offered by the Department of Linguistics or external seminars from an- other MA program. The choice of an external seminar has to be discussed with and ap- proved in advance by the MA advisor. Learning formats within the seminars may be: Class discussion, individual work, group work, presentations, moderation of meetings, exposés, written analysis exercises, written tests, accompanying portfolios, etc. The concrete forms of learning in each class are decided by the relevant teacher.				

Content of module	The second module in the supplementary area offers the opportunity to expand upon basic knowledge in the interdisciplinary context of Computational Linguistics. This may include lectures with exercises and/or seminars at the Institute of Linguistics or elsewhere. Along with the subareas of formal linguistics (syntax, semantics, pragmatics, morphology) clas- ses in the Master's programs in Informatics, Psychology, and Cognition Science are rele- vant. The selection of classes outside the Institute of Linguistics must be made in consulta- tion with the student's MA supervisor. The following is a list of some of the classes which Master's students have taken: Area: Informatics • VL/Ü Machine Learning I (Graduate School of Neural & Behavioral Sciences) • S Machine Learning (Informatics) • S Theoretical Informatica – Complexity Theory • VL/Ü Algorithms and Complexity Area: Linguistics • HS The Empty Category Principle • HS Verb Grammar - Synchronic and Diachronic Area: Cognition Science / Psychology • VL Second Language Acquisition • HS Language Processing and Cognitive Aspects in Bilingualism • HS Regression Modeling Strategies for the Analysis of Linguistic and Psycholin- guistic Data • HS Rational analysis of higher cognition: probabilistic models of reasoning and language use • HS Language processing in context: mechanisms of cognitive control						
Goals	In consultation with their MA supervisor, students can decide which additional qualifica- tions and skills would be useful to their studies and select appropriate classes. They are able to adopt specific knowledge from outside of the compulsory classes in the MA pro- gram and to shape their own future research profile accordingly. Depending on their selection of classes, students obtain deeper and/or broader knowledge in the relevant specialist areas of Informatics, Psychology, and Cognition Science. They are able to integrate their linguistic skills into these areas. At the same time, they are able to use the knowledge from other specialist areas in their own linguistic work and apply it within the framework of their subject profile.						
Requirements for the awarding of credit points/ grad- ing (and weighting, where appropriate)	Course	Class type	Credit hours in	dЛ	Assessment type	Grading system	Calculation of module grade
	Seminars or lectures	S/V	4	6 (3/6)		ub	
	Seminars or lecturesS/V49 (3/6/9)variousb100%						100%
Serves as:	Basis for modules ISCL-MA-06 and ISCL-MA-07.						
Requirements for admission	ISCL-MA-02						

Module no.: ISCL-MA-06	Module name: Supplementary area: Practical or Interdisciplinarity in depthModule typ Compulsory						
ECTS credits	15						
Workload - contact hours - private study	Workload: 450 hours	Contact hours: variable					rate study: able
Duration of mod- ule	1-2 semesters						
Frequency	Each semester						
Language of in- struction	English						
Teaching formats	This module can be completed by a combination of coursework and/or practical work. (a) Practical work in the semester break or during semester as a student trainee. To supervise their practical work, students choose a member of academic staff, usually their MA supervisor. Following the practical work, a short report (approx. 5 pages) is written; the supervisor assesses it. (b) Advanced seminars offered by the Department of Linguistics or external seminars from another MA program. The choice of an external seminar has to be discussed with and ap- proved in advance by the MA advisor. Learning formats within the seminars may be Class discussion, individual work, group work, presentations, moderation of meetings, exposés, written analysis exercises, written tests, accompanying portfolios, etc. The concrete forms of learning in each class are decided by the relevant teacher.						
Content of module	 (a) For those doing practical work, students obtain practical knowledge preparatory to starting a career by completing practical work with a company in the field of language technology or in related fields of industry. Students complete such practical work in the semester break or during semester as a student trainee. (b) For students who do not opt to complete practical work and instead seek to set individual areas of specialization, this module provides an opportunity to delve deeper into the interdisciplinary context introduced in the module ISCL-MA-05. 						
Goals	For those completing the practical work, experience in successfully integrating their theo- retical competence in a practical setting, working in a team, and solution-oriented work. Alternatively, broader and deeper understanding of the interdisciplinary context of Compu- tational Linguistics. Students are able to reflect on the content of their practical work and to report on it in written form.						
Requirements for the awarding of credit points/ grading (and weighting, where	Course	Class type	Credit hours in	ЧŢ	Assessment type	Grading system	Calculation of module grade
appropriate)	Advanced seminar or practical work	S/V/P		6 (3/6)		ub	
	Advanced seminar or practical work	S/V/P		9 (3/6/9)	various	b	100%
Serves as:	Basis for module ISCL-MA-07.						
Requirements for admission	ISCL-MA-01, ISCL-MA-02,	ISCL-MA	\-03 ,	SCL-MA-04			

4.3 Final module

Module no.: ISCL-MA-07	Module name:ModuleFinal moduleCompuls							
ECTS credits	30							
Workload - contact hours - private study	Workload: 900 hours		Co	ntact hou 0	irs:	Private 900 h		
Duration of module	1 semester							
Frequency	Each semester							
Language of in- struction	English or German							
Teaching formats	Final oral exam and composition of a Master's thesis as well as presentation of the thesis in a lecture.							
Content of module	Final oral exam and composition of a Master's thesis as well as presentation of the thesis in a lecture. The final oral exam of 60 minutes duration will test two areas from the field of Computational Linguistics. The topics are decided by the examiner in consultation with the student. The Master's thesis is to be around 70-80 pages long with approx. 400 words per page; it must be completed within 4 months. The topic is chosen by the student from the spectrum of the student's computational linguistics research profile, in consultation with the supervisor. Students are given the opportunity to present their thesis project in a half-hour presentation.							
Goals	 Oral examination Students must show that they have mastered their chosen special topic within its comprehensive context and that they are familiar with central issues in Computational Linguistics. They have broad knowledge of computational linguistics research areas and are able to make the relevant content and methodological connections in a dialogue with the examiner. With an outlook sharpened by their own specialized research, they can reflect on the breadth of the discipline. Master's thesis: In consultation with the supervisor, students can formulate a problem from their individual profile and competently place it in the context of computational linguistics research. They are able to process this problem independently and according to the academic methods of Computational Linguistics within the set time and to present the results in written form as if in Computational Linguistics journals. The order of the oral exam and the completion of the master thesis is determined by the examiner in consultation with the students. 							
Requirements for the awarding of credit points/ grad- ing (and weighting, where appropriate)	Course	Class type	Credit hours in semester	ГЪ	Assessment du- ration	Grading system	Calculation of module grade	
where appropriate)	Oral examination			10	60 min.	b	1/3	
	Master's thesis	MA		20	4 months	b	2/3	

Serves as:	Stepping-stone to doctoral studies, career			
Requirements for admission	Successful completion of 90 ECTS from the modules ISCL-MA-01 to ISCL-MA-06, in which at least three written assignments must have been completed.			