Bijlage 8: Track Information Science (Overzichten toetsing per vak / leeruitkomsten per vak)

Most courses include weekly assignments for which a resit is not possible as they are formative. If they do contribute to the final grade, the instructor will make a plan for a resit if necessary.

Semester 1		Block 1			Block 2		
Module	Code	Classes	Examination	Resit	Classes	Examination	Resit
Research Seminar	LIX018M05		Literature	Literature		Master Thesis	Master Thesis
Information			review	review		Proposal	Proposal
Science							
Shared Task	LIX026M05		Assignments	Assignments		Final Project	Final Project
Information						Report	Report
Science							
Semantic Web	LIX002M05	Weekly	Final project	Final project			
Technology		assignments					
Learning from	LIX016M05	Weekly	Final project	Final project			
Data		assignments					
Speech Science	[TBD]	Assignments	Final report	Final report			
Semest	er 1	Block 2			Block 3		
Module	Code	Classes	Examination	Resit	Classes	Examination	Resit
Computational	LIX021M05	Weekly	Final Project				Final Project
Semantics		assignments					
Computer-	LIX022M05		Research	Written Exam			Written Exam
Mediated			Report, Oral				
Communication							

			Presentation,				
			Written Exam				
Semest	er 2		Block 3		Block 4		
Module	Code	Classes	Examination	Resit	Classes	Examination	Resit
User Interface Evaluation	LIX024M05	(Individual and a Assignments: Perusall = 10% (of the Assignment 1 = 15% Assignment 2 = 15% Assignment 3 = 30% Assignment 4 = 30 %	group) e final marks) (of the final marks) (of the final marks) (of the final marks) (of the final marks)				
Advanced Topics in Natural Language Processing	LIX001M05	Weekly assignments	Final Report				Written Exam
Investigating Language Variation	LIXM05	Weekly assignments (4, pass/fail)	Final Report	Final Report			
Language Technology Project	LIX025M05					Research paper presentation, the project presentation, the project	Research paper presentation, the project presentation, the project

				report and	report and
				participation.	participation.
Conversational	LCX070M05			(1) the group	(1) the group
Interfaces:				report; (2) your	report; (2) your
Practice				individual	individual
				addendum; and	addendum; and
				(3) the	(3) the
				developed	developed
				system.	system.
Msc Thesis	LCX998M20	(The student		Master Thesis	Master Thesis
Information		works the			(If thesis grade
Science		whole semester			is not
		on his/her			sufficient)
		thesis)			
Internship	LCX900M10	The student		Internship	Internship
Information		does an		report	report
Science		internship			
		during the			
		whole semester			

	semester I							
Vakcode	Vaknaam	Beoogde leeruitkomsten	Wijze van toetsen					
LIX018M05	Research	Upon successful completion of the course unit, students are able to read	• A literature review					
	Seminar	critically advanced scientific papers, and sustain discussions about them	• A master thesis proposal, and its					
	Information Science	(2.1,2.2,3.1,3.2,3.3).	presentation in the seminar					
		They are up to date with recent developments in NLP and CL (1.1,1.2),						
		which are fast moving fields, and are able to prepare a detailed and critical						
		literature review on a topic of interest (2.1,2.2,2.4,2.5,5.1,5.2). They						
		understand how research is done by researchers in the field, both						
		interacting with RuG staff as well as international guests.						
		They are able to prepare a master thesis proposal and present it						
		(2.1,2.2,2.4,2.5,3.1,3.2,3.3), thus including dealing with a QA session						
		about their proposed research work (4.1, 4.2).						
LIX026M05	Shared Task	Upon successful completion of the course unit, students are able to	Assignments, Final Project report.					
	Information	1. Work in a team to solve a concrete computational problem in	There will be 3 graded assignments in the					
	Science	information science (1.1, 1.3, 4.1)	first block (1a). All assignments must					
		2. Translate the theoretical knowledge acquired to a practical	obtain a sufficient grade (5,5 or higher).					
		implementation (2.1, 2.2,2.3)	No compensation is allowed.					
		3. Develop novel approaches and compare to the state-of-the-art (3.2) (2.4,	The Final Project report needs to follow					
		3.2,5.2)	the guidelines of the shared task itself, it					
		4. Learn to work independently with minimal supervision from the teacher	should be written in English, and in the					
		(2.5, 3.3)	style of an academic article.					
		5. Learn to write a scientific paper (and meets the required standards) (5.1)						

LIX002M05	Semantic Web	Leerdoelen van het studieonderdeel (eindtermen op moduleniveau)	Weighting: all weekly assignments are
	Technology	1. Ability to work with semantic web languages and tools (processing	weighted 10%. The final grade is the
		RDF, querying RDF using SPARQL, RDF and OWL ontology	average of the
		development using Protégé). [1.1, 2.1, 2.2]	weekly assignments (30%) and the
		2. Ability to integrate these skills with general programming skills in the	project grade (70%).
		implementation of a demonstrator that uses semantic web technology.	
		[1.2,1.3, 2,3, 2.4, 2.5, 3.2, 4.1]	
		3. Critical understanding of the motivation and concepts underlying the	
		development of the semantic web. [1.2]	
		4. Familiarity with influential data sources, in particular DBpedia. [1.1]	
LIX016M05	Learning from	The course has a strong focus on practice, so that students are expected to be able to	The final assessment is based on weekly
	Data	practically run machine learning experiments on a given (NLP) problem. They will master	assignments given to the students
		key concepts and terminology of machine learning, understand training and testing	through out the source
		procedures, and use existing tools that support machine learning experiments - more	throughout the course
		specifically, they will become accustomed to using existing libraries and software, and	and on a final project.
		preparing data for it. [1.1, 2.1, 2.2] In setting up an experiment for a given task, they will be	
		able to decide how to represent a problem, choose and implement features for learning and	
		an appropriate algorithm, and interpret the results critically, by understanding evaluation	
		metrics as well as possible sources of errors (overfitting, little data, etc). [2.5, 3.3] They will	
		also know how to appropriately report on the experiments they run, as it is done in	
		academic publications. [4.1]	
LIX021M05	Computational	The student who masters the theory and techniques given in this course	You get a grade for the five assignments,
	Semantics	will be in a good position to appreciate and critically assess ongoing	and a grade for the group project.
		developments in computational semantics and semantic annotation (1.1).	
		After the course the student is able to give a formal semantic analysis of a	

		fragment of natural language (1.2) and also provide a compositional	
		semantics of a (simple) sentence using the lambda calculus (2.1). The	
		student has a good understanding of all these techniques from	
		computational semantics and lexical resources to apply them in a practical	
		application (3.1), and a critical awareness of the possibilities and	
		limitations of first-order logic applied to concrete language understanding	
		problems (5.1, 5.2).	
LIX022M05	Computer-	Upon successful completion of the course unit, students are able to	Research report (in student groups, 20%);
	Mediated	(i) Describe the main concepts introduced in the course:	final oral presentation (in student groups,
	Communication	Knowledge sharing	40%), final individual written exam (40%)
		Enterprise social media	
		Computer-mediated communication	
		• Computer-mediated communication competence (1.1, 1.2, 2.1, 2.2)	
		(ii) Explain the relations between the main concepts introduced; (1.1, 1.2, 3.1)	
		(iii) Recognize and identify the affordances and barriers of computer-mediated	
		communication systems in general for knowledge sharing, and in particular those	
		of enterprise social media; (1.1, 2.1, 2.2, 4.2)	
		(iv) Illustrate the process of online knowledge sharing by giving concrete	
		examples (1.2, 2.1, 2.2, 5.1)	
		(v) Evaluate the communicative effectiveness of online knowledge sharing; (1.2,	
		2.1, 2.2, 4.2, 5.1)	
		(vi) Propose strategies to optimize online knowledge sharing, from a computer-	
		mediated communication view. (1.1, 2.1, 2.2, 3.4, 4.2, 5.1)	
LIX027M0	Speech	Upon successful completion of the course unit, students are able to:	Four lab assignments (each graded 0-2 points)
5	Science	1. Identify components of an acoustic speech signal and describe their relation to	and a final assignment. Average lab

		 physiological/anatomical components of the speech system. (Learning outcomes: 1.1 and 1.2). 2. Independently design appropriate methods for speech data collection and analyses for typical and pathological speech. Specifically, students will be able to determine which speech measures are best suited for a specific research question. (Learning outcomes: 1.1, 1.2, 2.1, 2.2) 3. Reflect on the validity and reliability of both data collection and analyses for 	assignment corresponds to 40% of the grade, the final assignment (graded 0-10) corresponds to 60% of the grade. A resit is possible for each assignment.
		speech research (Learning outcome: 3.1, 5.1)	
		4. Evaluate a case study in speech research(Learning outcome: 3.2, 4.1)	
		semester II	
Vakcode	Vaknaam	Beoogde leeruitkomsten	Wijze van toetsen
LIX999M20	Msc Thesis Information Science	Varies with topic and methods used. See the assessment form for the criteria used to grade the thesis.	Thesis
LIX000M10	Internship Information Science	Varies with topic, assigned tasks, and methods used. Assessment is based report and evaluation of the external supervisor after consultation with the internal supervisor.	Internship report and evaluation by external supervisor.
LIX001M05	Advanced Topics in NLP	The goal of the course is to ensure that students are familiar with a number of very fundamental techniques and algorithms in the area of natural language processing, in particular for regular expressions, statistical language models based on N-grams, neural language models, part-of- speech tagging and dependency parsing. [1.1, 1.2, 1.3, 3.1, 5.1, 5.2]	Students are assessed based on the portfolio and Final Report
LIX024M05	User Interface Evaluation	 Understand the various aspects of UIE including cognitive psychology, human-computer interaction (HCI), and usability engineering (1.1, 1.2, 1.3, 4.1) 	Students in this course will be assessed based on five assignments. Three of these

		2. Identify the needs of users (of user-interface) and how they are served	assignments are individual assignments
		by UI (1.1, 1.2, 2.3)	(Perusall, Assignment 1 and 2) and group
		3. Critically analyze UIs by considering both the human and the usability	assignments (Assignment 3 and 4). For the
		engineering factors (1.1, 2.1, 2.2, 2.5)	group assignments, students have to
		4. analyze human-computer interaction from both theoretical and practical	form pairs.
		perspective and to come up with well-founded and target-group or task-	To pass the course, students must obtain a
		oriented solutions (1.3, 2.2, 2.4, 2.5)	final passing grade (5.5 or higher), as
		5. apply design principles to guide the evaluation of any user interface	well as a passing grade for each of the
		(2.3, 2.4, 2.5)	assignments: the individual assignments
			and the group assignments. The final
			grade is calculated as the weighted
			average of all the assignments including
			the Perusall. For the group project,
			students' roles must be specified
			following the instructions given in class
			and each student may receive a slightly
			different mark for the group project, based
			on their individual contribution.
LCX070M05	Conversational	Upon successful completion of the course unit, students are able to (where	The final grade of this course will be
	Interfaces:	the numbers in brackets refer to the Dublin descriptors cited in the	based on three deliverables: (1) the group
	Practice	Learning Outcomes of the Master Programme Communication and	report; (2) your individual addendum; and
		Information Studies):	(3) the developed system. Each of this
			component will be graded on

		• Implement empirical methods for data collection involving Wizard of Oz	the scale of 1 to 10. The final grade is the
		and human subjects (2.1; 2.3);	average of these three grades.
		• Conduct a task-based evaluation of a particular dialogue strategy (cf.	
		Turing test) (2.1; 2.2; 2.5);	
		• Present their own research via oral and written reports (4.1; 4.2).	
LIX M05	Investigating Language Variation and	Upon successful completion of the course unit, students are able to: 1. Understand various techniques in dialectometry (see 2.) in such a	Formative assessment of the ability to apply dialectometric techniques will be
	Variation and Change Quantitatively	 way that they can be applied. Specifically, the student knows how to use the Levenshtein distance algorithm, how to use clustering techniques, as well as multidimensional scaling (ReMA LO 1.1, 1.2; CIS-IS LO: 1.1, 2.1; assessed via lab reports and final report) Independently apply various dialectometric techniques (see 2.) to existing language variation corpus data (ReMA LO 1.1, 1.2; CIS-IS LO: 2.2; assessed via lab reports and final report) Reflect on the validity and reliability of the conclusions that can be drawn from the outcome of a dialectometric analysis (ReMA LO 3.1; CIS-IS LO: 3.2; assessed via final report) Independently select and conduct an appropriate dialectometric analysis (which may also be a technique not discussed during the course) using an existing dialect data set and report on this 	conducted by evaluating the four regular lab reports (graded as pass/fail). The final (summative) assessment of the course will be based on a written report in which the student shows that they are able to independently select and apply appropriate dialectometric techniques to a language variation dataset and critically report on this.
		adequately in writing. (ReMA LO 2.1, 4.3; CIS-IS LO: 2.2, 4.2 assessed via final report)	

LIX025M05	105 Language	Language 1. Technology Project	Understand various techniques in dialectometry (see 2.) in such a	Students are assessed based on the
	Technology		way that they can be applied. Specifically, the student knows how	research paper presentation, the project
	Project		to use the Levenshtein distance algorithm, how to use clustering	presentation, the project report and
			techniques, as well as multidimensional scaling (ReMA LO 1.1,	participation.
			1.2; CIS-IS LO: 1.1, 2.1; assessed via lab reports and final report)	
		2.	Independently apply various dialectometric techniques (see 2.) to	
			existing language variation corpus data (ReMA LO 1.1, 1.2; CIS-	
			IS LO: 2.2; assessed via lab reports and final report)	
		3.	Reflect on the validity and reliability of the conclusions that can	
			be drawn from the outcome of a dialectometric analysis (ReMA	
			LO 3.1; CIS-IS LO: 3.2; assessed via final report)	
		4.	Independently select and conduct an appropriate dialectometric	
			analysis (which may also be a technique not discussed during the	
			course) using an existing dialect data set and report on this	
			adequately in writing. (ReMA LO 2.1, 4.3; CIS-IS LO: 2.2, 4.2	
			assessed via final report)	