

UNIVERSITY OF AMSTERDAM
FACULTY OF SCIENCE
TEACHING AND EXAMINATION REGULATIONS
PART B: programme-specific section

Academic year 2021-2022

MASTER'S PROGRAMME IN INFORMATION STUDIES

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Chapter 1. General Provisions

Article B-1.1 – Definitions

Master Thesis Final project of the programme of 18 EC. The Master Thesis protocol applies to this component and can be found on the website of the programme: <https://student.uva.nl/is/content/az/master-thesis-information-studies/master-thesis-information-studies.html>.

Article B-1.2 – Study programme information

1. The Master's programme Information Studies is registered under CROHO number 60229. The official language is English. This means that the Code of Conduct for Foreign Languages at the UvA applies for this programme (see Code of Conduct Governing Foreign Languages at the University of Amsterdam 2000 at the website: <https://www.uva.nl/en/about-the-uva/policy-and-regulations/rules-and-regulations/teaching/teaching.html>).
2. The programme is provided on a full-time and part-time basis. Part-time students follow one component per period where the period in January can request full-time participation, as that might cover a project that request 40 hours of work per week.
3. The programme consists of a one-year programme with a total study load of 60 EC.
4. Within the programme the following tracks are offered:
 1. Data Science (DS)
 2. Information Systems (IS)

Article B-1.3 – Enrolment

The programme is offered starting in the first semester of the academic year only (1st September).

Chapter 2. Programme objectives and exit qualifications

Article B-2.1 – Programme objectives

Information Studies is an interdisciplinary field primarily concerned with the analysis, collection, classification, manipulation, storage, retrieval, movement, dissemination, and protection of information. The study covers the application and usage of knowledge in all forms of social structures, along with the interaction between people, organizations and any existing information systems, with the aim of creating, replacing, improving, or understanding information systems. Information Studies focuses on understanding problems from the perspective of the stakeholders involved and then applying information and technologies as needed. In other words, it tackles systemic problems first rather than individual pieces of technology within that system.

The objective of this master programme in the interdisciplinary field of Information Studies is to educate students as academics in the modern society and economy, who are able to contribute independently to the scientific developments in information studies and to follow the developments within research and its applications critically.

Graduates in Information Studies are able to perform research independently taking the interdisciplinary character of information studies into account. They are able to integrate knowledge from the three core areas, namely technology, human, and organisation, and apply their knowledge in reflective and innovative means in organizational or societal contexts.

Article B-2.2 – Exit qualifications

The exit qualifications of the Master's programme Information Studies are defined into the following 5 Dublin descriptors (see headers), where the formulation of the general and track specific exit qualifications follow the 2001 revised edition of Bloom's taxonomy.

Knowledge and understanding

1. The graduate is able to explain information systems as complex systems that function in a dynamic context in relation to people, organisations, society, and technology.
2. The graduate knows and understands concepts and theories relevant for Information Systems, incorporating disciplines such as computer science, economics, psychology, social science and humanities, and can relate these associated theories to theories on Information Systems.
3. The graduate knows and understands technologies that can be used to establish Information Systems.
4. The graduate is able to creatively and innovatively enhance knowledge within the state of the art to further enhance the domain of Information Studies.

Applying knowledge and understanding

1. The graduate has the ability to identify problems in, with, or between information systems and formulate adequate (research) questions.
2. The graduate is able to design, plan and execute a project to answer the questions, using the appropriate methodology.
3. The graduate is able to critically apply the transition processes from data to information by using a knowledge- and/or data-driven approach.
4. The graduate is able to work autonomously and with others in interdisciplinary teams and is able to apply his or her problem-solving abilities on authentic problems.
5. The graduate is able to integrate his or her own knowledge and understanding to facilitate, design, and implement a useful and innovative solution.

Making judgements

1. The graduate is able to critically evaluate relevant theories of computer science, economics, psychology, social science and humanities.
2. The graduate acts according to scientific and industrial standards in order to function adequately and autonomously in his or her future profession.
3. The graduate is able to assess the completeness of available information and to make judgments on the basis of existing information.
4. The graduate can analyse and evaluate newly created solutions and his or her own actions critically and in a systematic way.
5. The graduate is aware of the limitations and the ethical and social implications of the created solutions and their activities.

Communication

1. The graduate is able to clearly communicate findings and conclusions with solid argumentation to expert and non-expert audiences, making use of appropriate media.
2. The graduate possesses organizational sensitivity in the sense that he or she is able to listen carefully and considers the different perspectives of groups in an organisation that use information and ICT as well as those that produce data or design, build and maintain ICT applications.
3. The graduate is contextually sensitive, a careful listener and is able to take the perspectives of the different stakeholders and acknowledge differences in goals and values.

Capacities to continue Learning

1. The graduate is capable to reflect independently and with an open mind on his or her own performance and can continuously expand his or her academic development and affluence with ICT tools.

Chapter 3. Further admission requirements

Article B-3.1 – Admission requirements

1. The Master's Programme Information Studies is open to:
 1. Applicants holding a bachelor in the area of:

- Information Studies
 - Computer Science
 - Artificial Intelligence
 - Business Studies
 - Information Science
 - Communication Studies
 - Media Studies
 - Psychology
2. Depending on the chosen track, specific entry requirements apply (see B-3.1.3-4).
 3. Applicants are evaluated on an individual basis, where an assessment can be part of the intake procedure. Admission will be granted on an individual basis by the Admissions Board. Candidates can be assessed on behavioural characteristics which are required for the Information Studies work field, such as:
 - Analytical skills
 - Communicational abilities
 - Affinity with technology
 - Motivation
 The evaluation and procedures of the diplomas are according the Nuffic criteria.
 4. The Admissions Board can decide to admit an applicant that does not meet the requirements as described in paragraph B-3.1.1, B-3.1.2, B-3.1.3 or B-3.1.4, but only if this person meets requirements that are comparable to those with respect to content. Admission will be done on an individual basis by the Admissions Board.
 5. See also article B-3.2.
 6. Admission decisions are valid until 15 September of the academic year following the date of the admission decision.

Article B-3.1 – General requirements.

Students who apply to the Master Information Studies should have knowledge on the following topics:

1. Mathematics at VWO level or at a comparable level.
 2. English language requirements, see article B-3.5.
 3. In addition, basic knowledge is required on Academic skills:
 - Literature research
 - Academic writing
 - The ability to make abstractions from different contexts based on analytical thinking
 - Research skills, scientific reasoning
 - Reflection: critical assessment on general accepted theories
 - Ability to framing: the use of different interpretation schemes (frames) to reason about reality
 - Statistics
 - Empirical research
 4. Programming skills (e.g. Python, Java, C++) (12 EC formal university education only)
 5. Data and Information modelling (12 EC formal university education only):
 - Knowledge and data (6 EC) or equivalent
 - Databases and datastructures (6 EC) or equivalent
3. Specific requirements for the track *Data Science*
 1. Statistics (6 EC formal university education only):
 - Random variables, basic distributions such as the normal and binomial distributions, expectations, mean and variance;
 - Multiple regression, correlation, and hypothesis testing. Randomization, causation, bias, self-selection, generalizability
 4. Specific requirements for the track *Information Systems*:

1. Multimedia Information(6 EC formal university education only):
2. Knowledge of human media perception;
3. Digital representation of multimedia;
4. Human-computer interaction with digital multimedia

Article B-3.3 – Limited programme capacity

Not applicable.

Article B-3.4 – Final deadline for registration

1. A request for admission to the Master’s programme starting in September must be submitted to Studielink and the Faculty before 1 May in the case of EU/EEA/Swiss students, and before 1 February in the case of non-EU/EAA/Swiss students.
2. In exceptional cases, the Admissions Board may consider a request submitted after this closing date.

Article B-3.5 – English language requirements

1. The proficiency requirement in English as the official language can be met by the successful completion of one of the following examinations:

- IELTS: overall at least 7.0, subscores at least 6.5 (listening/reading/writing/speaking);
- TOEFL Internet-based test: overall at least 100, listening at least 22, Reading and Writing 24/30 and Speaking at least 25/30

The foregoing examinations must have been taken within two years before the student’s enrolment.

- C1 Advanced (CAE): minimal result 180 (overall B);
- C2 Proficiency (CPE)

Please note that the TOEFL-code for the Faculty of Science of the University of Amsterdam is 9011.

2. An exemption from the English examination referred to in the first paragraph shall be granted to students who:
 - had previous education in tertiary education in one of the following English-speaking countries: Australia, Canada (English), New Zealand, Ireland, the United Kingdom or the United States of America;
 - possessing a Bachelor’s degree from a Dutch university satisfy the requirement of sufficient command of the English language;

Chapter 4. Curriculum structure

Article B-4.1 – Composition of programme

1. The programme consists of the following components:
 1. Track specific compulsory components: 30 EC;
 2. Restricted-choice electives: 12 EC;
 3. A Master Thesis: 18 EC.
2. Every component will be examined. Within the Master’s programme Information Studies different types of testing are used. This is described per component in the course catalogue.
3. Within the Master’s programme Information Studies different types of teaching methods are used. This is described per component in the course catalogue.

Article B-4.2 – Compulsory Components

1. Programme Track *Data Science* – Full-time

Component	Code	Study load (EC)	Period	Teaching method	Assessment
Compulsory components (48 EC)					

Fundamentals of Data Science	5294FUDS6Y	6	1	L, CP, IC	Written, oral
Statistics, Simulation and Optimization	5294STSO6Y	6	1	L, CP	Written
Applied Machine Learning	5294APML6Y	6	2	L, CP	Written, oral
Data Systems Project	5294DASP6Y	6	1,2,3	L, PR	Written, oral
Big Data	5294BIDA6Y	6	4	L, CP, LS	Written, oral
Master Thesis Information Studies (track Data Science (DS))	5294MTD18Y	18	2,3,4,5,6	IC	Written, oral
Restricted-choice electives (12 EC)					
Dynamics in Business & IT	5294DIBI6Y	6	2	L	Written
Knowledge Engineering (VU)	52948KNE6Y	6	2	L, CP	Written
Modelling System Dynamics	5294MOSD6Y	6	2	L, CP	Written
Information Retrieval 1	52041INR6	6	4	L, LS	Written
Data-driven Business Innovation and Entrepreneurship	5294DDBI6Y	6	4	L, PR	Written
Data, sensors, and complex services	5294DSCS6Y	6	4	L, LS	Written oral
Causal Data Science	5294CADS6Y	6	4	L, CP	Written, oral
Perspectives on Information and Society	5294POIS6Y	6	4	L	Written, oral
Policy Making and Rule Governance	5294PMRG6Y	6	4	PR	Written
Applied Forecasting in Complex Systems	5294AFIC6Y	6	2	L, CP	Written, oral
The Social Web (VU)	52948THS6Y	6	4	L, PR	Written
A programme related course at any University ¹		6	2,4		

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching

2. Programme Track *Data Science* – Part-time

Year 1

Component	Code	Study load (EC)	Period	Teaching method	Assessment
Compulsory components (24 EC)					
Fundamentals of Data Science	5294FUDS6Y	6	1	L, CP, IC	Written, oral
Applied Machine Learning	5294APML6Y	6	2	L, CP	Written, oral
Data Systems Project	5294DASP6Y	6	1,2,3	L, PR	Written, oral
Big Data	5294BIDA6Y	6	4	L, CP, LS	Written, oral
Restricted-choice electives (6 EC required)					
A programme related course at any University ²		6	5		

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching

¹ The course needs to be approved by the track coordinator and the Examinations Board

² The course needs to be approved by the track coordinator and the Examinations Board

Year 2

Component	Code	Study load (EC)	Period	Teaching method	Assessment
Compulsory components (24 EC)					
Statistics, Simulation and Optimization	5294STSO6Y	6	1	L, CP	Written
Master Thesis Information Studies (track Data Science (DS))	5294MTD18Y	18	2,3,4,5,6	IC	Written, oral
Restricted-choice electives (6 or 12 EC required)³					
Dynamics in Business & IT	5294DIBI6Y	6	2	L	Written
Modelling System Dynamics	5294MOSD6Y	6	2	L, CP	Written
Information Retrieval 1	52041INR6	6	4	L, LS	written
Data-driven Business Innovation and Entrepreneurship	5294DDBI6Y	6	4	L, PR	Written
Data, sensors, and complex services	5294DSCS6Y	6	4	L, LS	Written, oral
Causal Data Science	5294CADS6Y	6	4	L, CP	Written, oral
Perspectives on Information and Society	5294POIS6Y	6	4	L	Written, oral
Policy Making and Rule Governance	5294PMRG6Y	6	4	PR	Written
Applied Forecasting in Complex Systems	5294AFIC6Y	6	2	L, CP	Written, oral
The Social Web (VU)	52948THS6Y	6	4	L, PR	Written
A programme related course at any University ⁴		6	2		

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching

³ If the student took an elective in block 5 in the first year, he or she only needs 6 EC, otherwise 12 EC.

⁴ The course needs to be approved by the track coordinator and the Examinations Board

3. Programme Track *Information Systems* – Full-time

Component	Code	Study load (EC)	Period	Teaching method	Assessment
Compulsory components (48 EC)					
Intelligent Interactive Systems	5294INIS6Y	6	1	L, PR	Written, oral
Information Organisation	5294INOR6Y	6	1	L, PR	Written
Modelling System Dynamics	5294MOSD6Y	6	2	L, CP	Written
Data Systems Project	5294DASP6Y	6	1,2,3	L, PR	Written, oral
Data, sensors, and complex services	5294DSCS6Y	6	4	L, LS	Written, oral
Master Thesis Information Studies (track Information Systems (IS))	5294MIS18Y	18	2,3,4,5,6	IC	Written, oral
Restricted-choice electives (12 EC required)					
Applied Machine Learning	5294APML6Y	6	2	L, CP	Written, oral
Dynamics in Business & IT	5294DIBI6Y	6	2	L	Written
Knowledge Engineering (VU)	52948KNE6Y	6	2	L, CP	Written
Information Retrieval 1	52041INR6Y	6	4	L, LS	Written
Big Data	5294BIDA6Y	6	4	L, CP, LS	Written, oral
Data-Driven Business Innovation and Entrepreneurship	5294DDBI6Y	6	4	L, PR	Written
Causal Data Science	5294CADS6Y	6	4	L, CP	Written, oral
Innovation and design thinking	5294INDT6Y	6	4	L, PR	Written
Perspectives on Information and Society	5294POIM6Y	6	4	L	Written, oral
Policy Making and Rule Governance	5294PMRG6Y	6	4	PR	Written
Applied Forecasting in Complex Systems	5294AFIC6Y	6	2	L, CP	Written, oral
The Social Web (VU)	52948THS6Y	6	4	L, PR	Written
A programme related course at any University ⁵		6	2,4		

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching

⁵ The course needs to be approved by the track coordinator and the Examinations Board

4. Programme Track *Information Systems*– Part-time

Year 1

Component	Code	Study load (EC)	Period	Teaching method	Assessment
Compulsory components (24 EC)					
Intelligent Interactive Systems	5294INIS6Y	6	1	L, PR	Written, oral
Modelling System Dynamics	5294SYDY6Y	6	2	L, CP	Written
Data Systems Project	5294DASP6Y	6	1,2,3	L, PR	Written, oral
Data, sensors, and complex services	5294DSCS6Y	6	4	L, LS	Written, oral
Restricted-choice electives (6 EC required)					
A programme related course at any University ⁶		6	5		

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching

Year 2

Component	Code	Study load (EC)	Period	Teaching method	Assessment
Compulsory components (24 EC)					
Information Organisation	5294INOR6Y	6	1	L, PR	Written
Master Thesis Information Studies (track Information Systems (IS))	5294MIS18Y	18	2,3,4,5,6	IC	Written, oral
Restricted-choice electives (6 or 12 EC required)⁷					
Applied Machine Learning	5294APML6Y	6	2	L, CP	Written, oral
Dynamics in Business and IT	5294DIBI6Y	6	2	L	Written
Knowledge Engineering (VU)	52948KNE6Y	6	2	L, CP	Written
Information Retrieval 1	52041INR6Y	6	4	L, LS	Written
Big Data	5294BIDA6Y	6	4	L, CP, LS	Written, oral
Data-Driven Business Innovation and Entrepreneurship	5294DDBI6Y	6	4	L, PR	Written
Causal Data Science	5294CADS6Y	6	4	L, CP	Written, oral
Innovation and design thinking	5294INDT6Y	6	4	L, CP	Written
Perspectives on Information in Society	5294POIM6Y	6	4	L	Written, oral
Policy Making and Rule Governance	5294PMRG6Y	6	4	PR	Written
Applied Forecasting in Complex Systems	5294AFIC6Y	6	2	L, CP	Written, oral
The Social Web (VU)	52948THS6Y	6	4	L, PR	Written
A programme related course at any University ⁸		6	2		

L = Lectures, LS = Lab sessions, CP = Computer practical, PR = practical, IC = Individual coaching

⁶ The course needs to be approved by the track coordinator and the Examinations Board

⁷ If the student took an elective in block 5 in the first year, he or she only needs 6 EC, otherwise 12 EC.

⁸ The course needs to be approved by the track coordinator and the Examinations Board

Article B-4.3 – Restricted-choice electives

1. Restricted-choice elective master components may be part of the study programme up to 12 EC.
2. The student can choose from the components in [this list](#) or specified in Appendix 1 without asking prior approval of the Examinations Board. In the UvA Course Catalogue the content, format and examination requirements of courses are described.
3. If the student wishes to take a different component than listed (Appendix 1), advance permission must be obtained in writing from the Examinations Board. These components:
 - a. have to be followed at an accredited university or institute
 - b. have to be relevant to the programme

Article B-4.4 – Practical exercise

Not applicable.

Article B-4.5 – Elective components

Not applicable.

Article B-4.6 – Free curriculum

1. The student has the option of compiling a curriculum of his/her own choice which deviates from the curricula prescribed by the programme.
2. The concrete details of such a curriculum must be approved before the start of the study programme by the most appropriate Examinations Board
3. The free curriculum is put together by the student from the units of study offered by the University of Amsterdam and must at least have the size, breadth and depth of a regular Master's programme and is in line with the learning outcomes of the degree programme.
4. The following conditions must at least have been met in order to be eligible for the Master's degree:
 1. at least 48 EC must be obtained from the regular curriculum;
 2. compulsory components and Master Thesis should be part of the programme;
 3. the level of the programme must match the objectives and exit qualifications that apply for the programme for which the student is enrolled.

Article B-4.7 – Sequence of examinations

1. The student may start with the final project of the study programme (Master Thesis) only if:
 1. all obligations, as stated in Article B-4.2, have been fulfilled and if the student's study programme has been approved by the Examinations Board, except the Master Thesis itself;
 2. all but one course from the first semester have been passed;
2. The assessment of projects in which several students have worked on an assignment will only be made at the end of the relevant teaching period. In principle, an individual resit is not possible.
3. At the request of a student, the Examinations Board may deviate from the conditions in paragraphs 1 and 2 for the benefit of the student.

Article B-4.8 – Participation in practical exercise and study group sessions

Stated in Course Catalogue for each component.

Article B-4.9 – Maximum exemption

A maximum of 18 EC in the programme can be accumulated through granted exemptions.

Article B-4.10 – Validity period of examinations

1. The validity period of successfully completed (interim) examinations and exemptions can be limited, as described in part A (2021-2022), article A-4.8.
2. In addition to what is stipulated in article A-4.8.2 of part A (2021-2022), all components that are listed in articles B-4.2 and B-7.2 can be tested on grounds of present-day scientific insights when a

student wants to include results of successfully completed examinations and/or granted exemptions older than 4 years in his/her study programme. If the contents of those components no longer corresponds to the present-day insights and/or the objects of the master programme, the Programme Director can decide that the results of successfully completed examinations have expired and the Examinations Board will choose replacing components.

3. In addition to article A-4.8.4 of part A (2021-2022) results of interim examinations which include theoretical course material are valid throughout the period of the course in question. Results of practical examinations are valid up to and including the end of the academic year in which they were achieved.

Article B-4.11 – Degree

Students who have successfully completed their Master's examination are awarded a Master of Science degree. The degree awarded is stated on the diploma.

Article B-4.12 – Participation in restricted-choice electives and rules for priority admission

Admission to restricted-choice elective with limited capacity takes place on the basis of the following rules:

1. In order of registration;
2. Students of the Master Information Studies will be admitted first, before students from other Master programmes or other universities (unless the course is from a different programme); Students are allowed to register for a maximum of two restricted-choice electives in one period (block). If students are enrolled in more than two courses, they will be notified of this fact automatically by email. Students are asked to unenroll from courses until the limit is no longer exceeded.

Article B-4.13 – Excellence project

1. Excellent students are given the opportunity to participate in an excellence project, in addition to the regular programme.
2. The specifications of- and regulations for enrolment in the excellence project:
 - An average of 8.0 or higher in the courses of the first block
 - The provision of an A5 one page description of the research proposal within 2 weeks after the initial invitation
 - The successful participation of a 20 minutes discussion about the research proposal with two members of the staff involved in the MSc Information Studies programme.
3. The Examinations Board approves the 6 EC awarded for successful completion of the excellence project, in addition to the regular program. The excellence project will be stated on the diploma.
4. Students who have successfully finished the excellence project and have an overall GPA of 8 or higher (cum laude) are awarded with a certificate accompanying the diploma.

Article B-4.14 – Establishment of grades

1. In case a course is based on 2 or more grades, the following compensation rules are applied:
 - A distinction is made between individual assignments and group assignments.
 - For the individual and group cluster, the grades have to be 5.5 or higher.
 - If such a grade is composed of a number of sub-grades, those sub-grades can compensate each other.
2. In case that a deadline for course work was failed to be met, the course work can be sanctioned with a maximum reduction of the grade of the assignment with 1 point per day, and maximum reduction of the final grade with 0.25 points per day of delay in delivery.

Chapter 5. Academic student counselling

Article B-5.1 – Academic student counselling

The academic student counselling for this programme consists of:
The study adviser, the course coordinators and the thesis supervisor.

Chapter 6. Teaching evaluation

Article B-6.1 – Teaching evaluation

Teaching evaluation shall take place as follows:

- Course evaluations of a large selection of courses
- Curriculum evaluation of the degree programme and the tracks within the programme
- Oral discussion

All evaluation reports are discussed within the Programme Committee, after which the findings will be published on canvas.

Chapter 7. Transitional and final provisions

Article B-7.1 – Amendments and periodic review

1. Any amendment to the Teaching and Examination Regulations will be adopted by the dean after taking advice, and if necessary, approval by the relevant Programme Committee. A copy of the advice will be sent to the authorised representative advisory body.
2. An amendment to the Teaching and Examination Regulations requires the approval of the authorised representative advisory body as stated in the WHW.
3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this demonstrably does not damage the interests of students.

Article B-7.2 – Transitional provisions

The transposition table below lists the components from the old Master's programme and their corresponding components from the new Master's programme:

Old component	Replacement in 2021-2022
Business IT Alignment	Dynamics in Business & IT
Information and Innovation Management	Dynamics in Business and IT
Integrating Cases	Data Systems Project
Searching Unstructured and Structured Data	Information Retrieval 1
Interaction Design project	Data Systems Project
Mobile Systems	Data, Sensors and Complex Services
Rule Governance	Policy Making and Rule Governance
Knowledge and Media	Information Organisation
Technology Enhanced Learning	There will not be a course replacement for this course
Information Visualisation	There will not be a course replacement for this course
System Dynamics	Modelling System Dynamics

Article B-7.3 - Publication

1. The Dean of the faculty will ensure the appropriate publication of these Regulations and any amendments to them.
2. The Teaching and Examination Regulations will be posted on the faculty website and deemed to be included in the course catalogue.

Article B-7.4 – Effective date

Section B of these Regulations enter into force with effect from 1 September 2021 and up to and including 31 August 2022. If no new or amended TER B have been adopted by that date, the current TER B will be extended by a maximum of 6 months.

Thus drawn up by the Dean of the Faculty of Science on 16 November 2021.

Appendix 1. Restrictive choice electives

- Advanced Topics in Computational Finance
- Advanced Topics in Computational Semantics
- BioInformatics II
- Computational Biology
- Computational Dialogue Modelling
- Computational Social Choice
- Computer Vision 2
- Data Mining Techniques
- Distributed Algorithms
- E-Commerce Law
- Experimental Design and Data Analysis
- ICT4D: Information and communication technology for Development
- Knowledge Representation on the Web
- Kolmogorov Complexity
- Logic, Games and Automata
- Model Theory
- Natural Language Processing 1
- Natural Language Processing 2
- Performance Engineering
- Quantitative Financial Risk Management
- Software Asset Management
- Software Testing
- Term Rewriting Systems
- Web Services and Cloud-Based Systems