

OFFICIAL BULLETIN OF THE INSTITUTIONS OF HIGHER EDUCATION IN SAARLAND

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SAARLAND UNIVERSITY

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Subject-Specific Regulations for Bachelor's and Master's Degree Programmes in Media Informatics at Saarland University Supplementing the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science)

2 June 2016

Pursuant to Section 59 of the Saarland University Act of 23 June 2004 (Official Gazette of Saarland, p. 1782) as amended by the Act of 14 October 2014 (Official Gazette, p. 406) and pursuant to the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 2 July 2015 (Official Bulletin No. 72, p. 616) as amended by the Ordinance to Amend the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 28 April 2016 (Official Bulletin No. 47, p. 404) and with the consent of the Saarland University Senate and the University Board, Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) at Saarland University hereby issues the following Subject-Specific Regulations Governing the Bachelor's and Master's Degrees in Media Informatics.

Section 27

Scope

(cf. Sec. 1 of the Joint Examination Regulations)

These subject-specific regulations apply to the Bachelor's and Master's degree programmes in Media Informatics at Saarland University.

Section 28

General information

(cf. Sec. 2 of the Joint Examination Regulations)

Both the Bachelor's and Master's degree programmes place greater emphasis on research.

Section 29

Types of degree programmes

(cf. Sec. 3 of the Joint Examination Regulations)

The Bachelor's and Master's degree programmes in Media Informatics are single-subject degree programmes within the meaning of the Framework Examination Regulations for Bachelor's and Master's Degree Programmes at Saarland University (BMPRO).

Section 30

Student workload

(cf. Sec. 4 of the Joint Examination Regulations)

Course attendance may be compulsory for certain introductory seminars, seminars and practical skills classes. Students will be notified of this by the course coordinator at the beginning of the course.

Section 31

The Examination Board

(cf. Sec. 7 of the Joint Examination Regulations)

(1) Pursuant to Section 2(4) of the Joint Examination Regulations, the Examination Board for Media Informatics shall comprise:

1. three representatives from the group of professorial staff within the faculty, or two representatives from the group of professorial staff within the faculty and one representative from the group of the permanent members of academic staff at the University of Art and

- Design Saar (*Hochschule der Bildenden Künste – HBKsaar*);
2. one representative from the group of mid-level teaching staff within the faculty;
 3. one representative, who shall have limited voting rights, from the group of students in the Department of Media Informatics.

The member from the group of students shall only have an advisory vote on the Examination Board if questions regarding the grading of the final assessment phase of the Bachelor's or Master's degree arise, unless said member is appropriately qualified.

Each member of the Examination Board shall have a deputy who represents them in their absence. The members of the Examination Board defined in items 1 to 3 above and their deputies are elected for a term of up to two years by the Faculty Council after being nominated by the relevant member groups within the faculty. Members may be re-elected at the end of their term. If a member or deputy member of the Board withdraws before the end of their term, a replacement shall be selected for the remainder of the term.

- (2) The Examination Board shall appoint a Chair and Deputy Chair from the members of the Board specified in items 1 and 2 of Subsection (1) above.

Section 32

Examiners; thesis examiners; supervisors, observers (cf. Sec. 8 of the Joint Examination Regulations)

- (1) The Examination Board shall appoint from the relevant department examiners, thesis examiners and/or thesis supervisors drawn from the groups in Section 8(1), items 1 to 7 of the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of the Faculty of Mathematics and Computer Science and, additionally, from

8. the group of mid-level academic staff with the right to supervise doctoral candidates, and
9. the group of professorial staff at the University of Art and Design Saar (HBKsaar).

- (2) In addition to the examiners, thesis examiners and thesis supervisors specified in Section 8(2) of the Joint Examination Regulations, the Examination Board of the Department of Media Informatics may, in individual cases and with the consent of those members of professorial staff with responsibility for the relevant subject area, also appoint heads of independent junior research groups, members of mid-level academic staff qualified to doctoral level, members of the scientific staff at the German Research Center for Artificial Intelligence (DFKI) and the Max Planck Institutes for Informatics and for Software Systems who have a doctoral qualification, members of academic staff at the University of Art and Design Saar (HBKsaar) who hold a doctoral qualification, as well as other qualified and experienced professionals working in the relevant field.

Section 33

Admission to the Master's programme (cf. Sec. 12 of the Joint Examination Regulations)

- (1) Students seeking admission to the Master's programme shall:

1. have a Bachelor's degree from a German university or an equivalent qualification from a foreign university in media informatics or a related field (particularly in the area of computer science / informatics),
2. demonstrate particular academic aptitude (see Section 69(5) of the Saarland University Act).

- (2) The following criteria shall be used to assess the applicant's particular academic aptitude:
 1. sufficient merit in the applicant's previous academic track record, as demonstrated by an overall grade in the Bachelor's degree (as defined in (1) above) of at least 'good' (German grading scale: 2.3 or better), or,
 2. taking account of the applicant's overall academic performance defined in item 1 above, the applicant's particular interest in the subject as demonstrated either by two academic

references from referees who know the applicant academically, or by the results of a personal interview.

3. Proof of proficiency in English at level C1 of the Common European Framework of Reference for Languages (CEFRL).

The criteria listed above will be used to assess the aptitude of the applicant in terms of the academic profile and requirements of the Master's degree programme in Media Informatics. The decision whether the programme admission requirements have been met shall be made by the Examination Board.

Section 34
Procedural elements, presentation and layout of the thesis
(cf. Sec. 23 of the Joint Examination Regulations)

A colloquium lasting 30 minutes shall be held in order to establish that the Bachelor's or Master's thesis is the candidate's own original work. The colloquium shall be held no later than six weeks after the candidate has submitted the printed version of their Bachelor's or Master's thesis. One of the colloquium examiners shall be the person who set the candidate's thesis topic.

Section 35
Successfully completing the Bachelor's or Master's
programme and overall grade (cf. Sec. 24 of the Joint
Examination Regulations)

To graduate 'with distinction' a candidate must have attained a final overall grade of 1.1 or better and must have met all of the programme requirements within the standard period of study.

Section 36
Degree qualification and documentation
(cf. Sec. 25 of the Joint Examination
Regulations)

In addition to the information presented in Section 25(1) of the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of the Faculty of Mathematics and Computer Science, the degree certificate may also list other student attainments and the results achieved.

Section 37
Commencement

These regulations shall come into force on the day after they are announced in the Official Bulletin of the Institutions of Higher Education in Saarland (*Dienstblatt der Hochschulen des Saarlandes*).

Saarbrücken, 6 October 2016



President of Saarland University
(Univ.-Prof. Dr. Volker Linneweber)

Study Regulations Governing the Master's Degree Programme in Media Informatics at Saarland University

2 June 2016

Pursuant to Section 54 of the Saarland University Act of 23 June 2004 (Official Gazette of Saarland, p. 1782) as amended by the Act of 14 October 2014 (Official Gazette, p. 406) and pursuant to the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 2 July 2015 (Official Bulletin No. 72, p. 616) as amended by the Ordinance to Amend the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 28 April 2016 (Official Bulletin No. 47, p. 404) and with the consent of the Saarland University Senate, Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) at Saarland University hereby issues the following Study Regulations Governing the Master's Degree Programme in Media Informatics.

Section 1 Scope

These study regulations, which govern the content and structure of the Master's degree programme in Media Informatics, are based on the Joint Examination Regulations for the Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 2 July 2015 (Official Bulletin No. 72, p. 616) as amended by the Ordinance to Amend the Joint Examination Regulations for Bachelor's and Master's Degree Programmes of Faculty 6 (Natural Science and Technology Faculty I – Mathematics and Computer Science) of 28 April 2016 (Official Bulletin No. 47, p. 404) and the Subject-Specific Regulations Governing the Master's Degree Programme in Media Informatics of 2 June 2016 (Official Bulletin No. 66, p. 620). The Faculty of Mathematics and Computer Science is responsible for organizing the teaching, study curriculum and examinations relating to these programmes.

Section 2 Objectives of the degree programme and career relevance

- (1) The Master's degree programme 'Media Informatics' aims to provide an applications-driven education in the multidisciplinary field of media informatics by including integrated practical skills training, work placements / internships and project work that place particular importance on developing an interdisciplinary approach to systems design. The programme not only teaches students the methods and techniques used in scientific research as well as a deeper understanding of the subject's underlying principles, it also enables them to acquire a professionally relevant and applications-focused skills set. Students are taught how to design, analyse and evaluate the technologies used in the media IT sector. Through a cooperative arrangement with Saarland's University of Art and Design (HBKsaar), students also participate in project-based teaching units where they can train important design skills. Students undertake practical skills classes and a work placement / internship stage that help them develop group-work and interpersonal skills and to consolidate the theoretical knowledge acquired in the programme by applying it to practical projects. Graduates from the Master's programme are qualified to take up management posts in organizations that use digital media to develop and integrate new interactive solutions. Employment opportunities for graduates include lead supervisory roles and freelance work researching, designing and developing intelligent methods of man-machine interaction, providing technology consulting and coordination services to companies, incorporating new media into projects in the media sector, and developing novel edutainment and entertainment concepts.

(2) The academic training that students receive on the M.Sc. Programme 'Media Informatics' also provides an acceptable foundation for further post-graduate study (e.g. doctoral or PhD research).

Section 3 Start and duration of programme

(1) Students can begin the programme at the beginning of the winter or summer semester of each year.

(2) The curriculum is organized such that the programme can be completed in four semesters (standard period of study).

Section 4 Types of academic instruction

The curriculum content is taught using the following types of academic instruction:

1. Lectures ('L', standard class size = 100): Lectures serve to introduce a particular subject area and also provide an overview of the relevant theoretical concepts and principles, methodologies and skills, technologies and practical implementations that are common to the subject. Lecture courses provide suggestions for further reading on a topic and open the way to acquiring a deeper understanding of an area through subsequent exercise and problem-solving classes, practical skills classes and self-directed study.
2. Exercise and problem-solving classes ('EP', standard class size = 20): Exercise and problem-solving classes are small-group sessions used primarily to supplement and reinforce what was learned in the lectures. Students work on representative problems as this provides an opportunity for them to apply and deepen the knowledge they acquired in the lectures, to assess their personal understanding of a specific area and to clarify any questions that they may have.
3. Seminars ('S', standard class size = 15): Seminars provide an opportunity for students to broaden the knowledge and skills that they have already acquired and to gain a deeper understanding of a particular field of research by participating in discussions, giving presentations or completing seminar assignments based on their study of the specialist literature and relevant academic sources. They also help students acquire the skills necessary for the effective oral and visual presentation of scientific and academic content and encourage students to engage in critical analysis and discussion of research results. A seminar may also include project-related work in areas of current scientific interest or debate. The deeper understanding of a particular field that students acquire through project-related work in the Master's seminar may provide the basis for their final-year Master's thesis.
4. Practical skills classes and project work ('P', standard class size = 15; Master's thesis project, standard class size = 6):
Practical skills classes or projects offer a number of practical subject-related topics that introduce students to the specific approaches and methods used in a particular discipline or field of study. The necessary theoretical knowledge underlying a specific topic is acquired by attending lectures and studying the relevant scientific literature. An additional goal of the practical skills classes is to provide students with the opportunity to gain practical experience with computer-aided methods. Projects tend to address interdisciplinary topics. Working on a topic offers students the opportunity to work in supervised groups to tackle specific assignments from the initial solution design concept through to its final practical implementation. Students learn about the relationships between theory and practice not only through their own independent study and research, but also through project-based teamwork. Participation in a particular practical skills class or project may be dependent on a student having first successfully completed a required course of lectures and exercise and problem-solving classes.

Section 5 Structure and content of the programme

(1) To graduate from the Master's programme 'Media Informatics', students are required to earn a total of 120 credits (often referred to in Germany as 'credit points' or 'CPs') as defined by the European Credit Transfer System (ECTS). Of these, 86 credits shall be from graded assignments. As a rule, students are required to earn 30 credits per semester.

(2) The degree programme comprises modules associated with the different sections of the programme listed below. Appendix A provides details of the modules and module elements offered in the different sections of the programme, the type of academic instruction used, the number of credit hours per week and the ECTS credits earned, the module frequency, the type of academic assessment and whether the module is graded.

1. The mandatory section, which is composed of the following modules: two core lecture courses (each worth 9 credits) and an advanced lecture course (6 credits) in the field of computer science / informatics; a seminar (7 credits) in the field of media informatics or in computer science / informatics; a media, art and design 'MAD' project (8 credits) from the range of courses offered at the University of Art and Design Saar (HBKsaar); the Master's seminar (12 credits) and the Master's thesis (30 credits) in the field of media informatics or in computer science / informatics.
2. The work placement / internship stage, which is made up of the work placement / internship itself (20 credits) and the associated work experience seminar (5 credits).
3. The mandatory elective area 'Media, Art and Design – MAD' (8 credits), which is composed of modules (worth a total of 8 credits) drawn from the courses offered at the University of Art and Design Saar (HBKsaar) or a 'MAD' project (worth 8 credits).
4. The mandatory elective area 'Soft Skills' (worth a minimum of 6 credits) in which students may select modules in areas such as:
 - a. Tutoring and supervising undergraduate students in exercise and problem-solving classes (usually 4 credits). Note: tutoring several groups of students is permitted, provided that the exercise or problem-solving classes are from different modules.
 - b. Language courses (maximum of 6 credits; modern languages only and not the student's native language)
 - c. Soft Skills Seminar
 - d. Modules for which an application has been submitted to and approved by the Examination Board. For example, students have the option of submitting an application to the Examination Board requesting recognition of certain student activities (particularly assistance with university-related administrative services) or of courses teaching key skills (maximum of 3 CP).

(3) To fulfil the requirements of the mandatory section and the work placement / internship stage, students must complete all of the modules specified in Sec. 5(2), items 1 and 2 above. To fulfil the requirements of the mandatory elective areas 'Soft Skills' and 'Media, Art and Design – MAD', students must earn credits from modules that were not studied as part of the Bachelor's programme. In the mandatory elective areas, students can select either entire modules or individual module elements in accordance with course prerequisites. A 'Media, Art and Design – MAD' project may be used only once to earn academic credit. Credits from academic assessments and examinations that were used to obtain the preceding Bachelor's degree cannot also be used to meet the degree requirements of the Master's programme. However, any credits from academic assessments and examinations that were earned during the Bachelor's degree period but that were not used to meet the total credit requirements for the Bachelor's programme may be transferred to the Master's programme provided that they do not exceed a total of 30 ECTS credits.

(4) Students are required to accumulate a total of 81 credits in the mandatory section of the

curriculum (of which 30 credits are from the 'Master's Thesis' module and 12 credits are from the 'Master's Seminar' module), a total of 25 credits in the work placement / internship stage of the programme, typically 6 credits in the mandatory elective area 'Soft Skills', and at least 8 credits in the mandatory elective area 'Media, Art and Design – MAD'.

(5) The number of places available in practical training classes, seminars and in the mandatory elective modules 'Tutoring', 'Soft Skills Seminar', 'Language Courses' and 'MAD Projects' are limited, with the exact number of places available depending on the specific module or module element. Admission to these modules will be managed by the module coordinator.

(6) Academic credits are either graded or ungraded. A graded academic assessment or examination cannot be split into ungraded and graded credits.

(7) A student who received academic credits for successfully completing a core lecture course is permitted to retake the assessment or examination on one further occasion within the same examination period and during the standard period of study in order to improve the mark awarded (cf. Sec. 13(4) of the Examination Regulations). A student who received academic credits for successfully completing an advanced lecture course is permitted to retake the assessment or examination on one further occasion within the same examination period in order to improve the mark awarded, provided that the lecturer gave notice at the beginning of the course that the final examination or assessment may be repeated for this purpose. The student will be awarded the higher of the two grades. In all other cases, students will not be permitted to repeat an assessment or examination for which they have already achieved at least the minimum pass mark.

(8) The core lecture courses offered in the mandatory electives section of the programme are offered at least once every two years. Seminars and advanced lecture courses will not necessarily be repeated. The Dean of Studies will ensure that a sufficient number of courses and modules are offered each year.

(9) The language of instruction is usually English and will be announced at the beginning of each course or module.

(10) The range of modules offered as mandatory electives may be modified for one or more semesters, though such a change shall require the approval of the Examination Board. These additional modules or module elements, their weighting in ECTS credits and their classification within the different sections of the programme will be announced before the semester begins.

(11) Detailed information about the content of the individual modules and module elements is provided in the module catalogue that will be made available in suitable form. Any changes or amendments to the information in the module catalogue not covered in these regulations shall be reported to the Dean of Studies and documented appropriately.

(12) Course attendance may be compulsory for certain seminars and practical skills classes. Students will be notified of this by the course coordinator at the beginning of the course.

Section 6

Work placement / internship stage

(1) Students on the Master's degree programme 'Media Informatics' are required to complete a work placement / internship stage comprising the work placement / internship itself and an associated work experience seminar. A work placement / internship may only be undertaken if the relevant details have been previously discussed and approved by the departmental academic adviser or the Examination Board. The work placement / internship is a period of practical training and instruction in the field of media informatics or a related area, such as computer science, that is undertaken by the student in an industrial or research environment. Students normally undertake the work placement / internship during the second semester. Students completing the work placement / internship will earn 20 ungraded credits. The work placement / internship shall last at least 14 weeks and the total student workload should be about 600 hours (1 credit earned

for every 30 hours worked). No additional credits will be awarded if the workload exceeds the specified number of hours. The work placement / internship should be undertaken in a company, organization or research institution that is active in a field of relevance to media informatics. Placements can also be undertaken abroad. The company, organization or research institution hosting the work placement / internship shall provide an ungraded certificate confirming that the work placement / internship was completed. The work placement / internship stage includes a work experience seminar where students compile a report on their work placement or internship and a colloquium in which they document their work experience. Students receive 5 graded credits for successfully completing the work experience seminar.

(2) The Examination Board shall, on request, take account of statutory periods of maternal leave, periods of parental leave and family care obligations (particularly caring for a child under the age of 18 or supporting family members with care needs), as well as the special needs of students with disabilities.

(3) The Natural Science and Technology Faculty I shall appoint an authorized person to administer the work placement / internship stage of the programme.

(4) Whenever possible, the work placement / internship stage should be undertaken in the second semester. Students shall attend an advisory session that provides information on the implementation and organization of the work placement / internship. Students will be supervised during the work placement / internship by a member of the department or by a supervisor as defined in Section 8 of the examination regulations. Each student is personally responsible for arranging their own work placement / internship and for obtaining prior approval for the proposed work placement / internship from the Examination Board or its Chair. Assistance during the application phase, and information on work placement / internship opportunities, scholarships and administrative formalities (particularly in the case of work placements / internships abroad) is available from Saarland University's Business and Industry Liaison Office (Career Center), the Student Advisory Service at the Department of Computer Science and from the International Office.

(5) Students are required to submit to the 'Media Informatics' Examination Board the subject area and content of their proposed work placement / internship and details of the host company/organization. The Examination Board must approve the proposal.

(6) The work placement / internship shall be assessed:

1. formally by the person authorized by the Natural Science and Technology Faculty I to administer the work placement / internship stage of the programme
2. in a colloquium by means of a student report that documents the work carried out during the work placement / internship. The report should be submitted immediately after completion of the work placement / internship but no later than the end of the following semester; the colloquium shall be held as part of the work experience seminar. Students who successfully complete the colloquium shall be awarded 5 graded credits.

Section 7 Study plan

The Dean of Studies will compile a study plan based on these study regulations that includes details of the types and scope of the module elements offered (Appendix A) with recommendations on how students can organize and structure their studies efficiently (Appendix B). The study plan will be made available in suitable form. The range of modules offered in a particular semester will be published in the Saarland University course catalogue for that semester.

Section 8 Study counselling

(1) The Central Student Advisory Service (*Zentrale Studienberatung*) at Saarland University provides counselling and guidance to prospective students and enrolled students concerning the content, structure and requirements of academic study at Saarland University. It also can advise and assist students with respect to their study options as well as with planning and organizing their studies.

(2) Questions concerning curricular demands, learning objectives, admission requirements and study planning and organization can be addressed to the departmental academic adviser for computer science.

(3) Questions relating to individual modules can be addressed to the respective module coordinators.

Section 9 Studying abroad

Students have the opportunity to spend part of the programme studying abroad. Students interested in studying abroad should seek advice from a relevant source, take preparatory language courses as needed and should clarify credit transfer arrangements in accordance with the examination regulations by completing a study abroad learning agreement. Information on study abroad opportunities, exchange programmes, scholarships and administrative formalities is available from Saarland University's International Office or from the relevant departmental or subject representatives. As foreign host universities and scholarship-awarding bodies often have early application deadlines and long application processing times, study abroad applications should normally be submitted to the Examinations Office one year before the planned start date.

Section 10 Master's thesis and Master's seminar

(1) By completing a Master's thesis, students demonstrate that they are able to work independently on addressing a technical, design and/or theoretical-conceptual problem in the field of media informatics or related areas. The completion period for the Master's thesis is six months. Students are awarded 30 CP for completing their Master's thesis.

(2) Before finishing their Master's thesis, each student shall have successfully completed a Master's seminar in an area with direct relevance to the topic being addressed in the thesis. Students attending a Master's seminar shall give an oral presentation on the problem they propose to tackle in their Master's thesis and submit a written description of the issues to be addressed.

(3) Students shall register their thesis project with the Examinations Office no later than one semester after successfully completing the Master's seminar. Students who fail to meet this deadline will be required to successfully complete another Master's seminar.

Section 11 Commencement

These regulations shall come into force on the day after they are announced in the Official Bulletin of the Institutions of Higher Education in Saarland (*Dienstblatt der Hochschulen des Saarlandes*).

Saarbrücken, 6 October 2016



President of Saarland University
Univ.-Prof. Dr. Volker Linneweber

Appendix A. Modules, assessments and examinations in the Master's degree programme 'Media Informatics'

Master's degree programme (M.Sc.) 'Media Informatics'		Appendix A. Modules, assessments and examinations in the Master's degree programme 'Media Informatics'											
Module name	Module element	Type of assessment	Grading	ECTS credits		Subject-related semester				Winter semester		Summer semester	
				ungraded	graded	1		2		3		4	
						L / EP / S credit hrs/wk	ECT S credits	L / EP / S credit hrs/wk	ECT S credits	L / EP / S credit hrs/wk	ECT S credits	L / EP / S credit hrs/wk	ECT S credits
Core Lectures (at least 18 credits)				0	18	8 / 4 / 0	18						
	Artificial Intelligence	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Operating Systems	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Computer Graphics	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Database Systems	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Data Networks	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Embedded Systems	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Information Retrieval and Data Mining	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Computer Architecture	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Security	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Software Engineering	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Telecommunications I	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Compiler Construction	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Algorithms and Data Structures	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Automated Reasoning	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Image Processing and Computer Vision	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Computer Algebra	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Geometric Modelling	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Introduction to Computational Logic	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Complexity Theory	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Cryptography	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Optimization	written exam(s), preliminary assessment	g		9			4 / 2 / 0	9				
	Semantics	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Machine Learning	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Verification	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
	Distributed Systems	written exam(s), preliminary assessment	g		9	4 / 2 / 0	9						
The Examination Board may add modules to or withdraw modules from this list.													
Advanced Lectures (at least 6 credits)				0	6					2 / 2 / 0	6		
	Correspondence Problems in Computer Vision	written exam(s), preliminary assessment	g		6					2 / 2 / 0	6		
	Computer Architecture 2	written exam(s), preliminary assessment	g		9					4 / 2 / 0	9		
	Telecommunications II	written exam(s), preliminary assessment	g		9							4 / 2 / 0	9
	Computer Graphics II	written exam(s), preliminary assessment	g		9					4 / 2 / 0	9		
	Automated Debugging	written exam(s), preliminary assessment	g		6					2 / 2 / 0	6		
	Automata, Games and Verification	written exam(s), preliminary assessment	g		6					2 / 2 / 0	6		
	Introduction to Image Acquisition Methods	written exam(s), preliminary assessment	g		4					2 / 0 / 0	4		
	Automatic Planning	written exam(s), preliminary assessment	g		9					3 / 2 / 0	9		
The Examination Board may add modules to or withdraw modules from this list.													
Media, Art & Design (at least 16 credits)				8	8	0 / 0 / 7	8			0 / 0 / 7	8		
MAD mandatory electives (8 credits), to be selected from:													
Practical skills classes	3D Studio Max, Matbox, Audio, Video, Blender	Project work	u	4		0 / 2 / 0	4						
Studio	Typography, Layout, Advertising, Product Design	oral	u	4		0 / 2 / 0	4						
Workshop	Print, Metal, Wood, Web, Photography	Project work	u	4		0 / 2 / 0	4						
Theory	various	oral	u	4		2 / 0 / 0	4						
MAD Project (large)	Interaction, Games, Product Design, Animation	Project work	g		16					0 / 0 / 8	16		
MAD Project (small)	Interaction, Games, Product Design, Animation	Project work	g		8	0 / 0 / 7	8			0 / 0 / 7	8		
The Examination Board may add modules to or withdraw modules from this list.													
Work Placement / Internship Stage (25 credits)				20	5			0 / 0 / 16	25				
Work Placement / Internship	Work Placement / Internship	Project work	u	20				0 / 0 / 14	20				
Work Experience Seminar	Seminar	oral, written	g		5			0 / 0 / 2	5				
Mandatory Elective Area 'Soft Skills' (at least 6 credits)				6	0					2 / 2 / 0	6		
Tutoring		Tutoring	u	4						0 / 3 / 0	4		
Soft Skills Seminar		oral, written	u	4						2 / 3 / 0	4		
Language Course	various (3 in total – max. 6 credits)	oral, written	u	6						0 / 2 / 2	6		
The Examination Board may add modules to or withdraw modules from this list.													
Seminar (7 credits)				0	7	0 / 0 / 3	7						
Academic Seminar	Various seminars as per course catalogue	oral, written	g		7	0 / 0 / 3	7						
Final Research Project (42 credits)				0	42					0 / 0 / 8	12	0 / 0 / 20	30
Master's Seminar	Introduction to Academic and Research Skills	oral, written	g		12					0 / 0 / 8	12		
Master's Thesis	Master's Thesis	Master's Thesis	g		30							0 / 0 / 20	30
	Overview			0	18	8 / 4 / 0	18	0 / 0 / 0	0	0 / 0 / 0	0	0 / 0 / 0	0
	Core lecture courses			0	6	0 / 0 / 0	0	0 / 0 / 0	0	2 / 2 / 0	6	0 / 0 / 0	0
	Advanced lectures			8	8	0 / 0 / 4	8	0 / 0 / 0	0	0 / 0 / 4	8	0 / 0 / 0	0
	Media, Art & Design			20	5	0 / 0 / 0	0	0 / 0 / 16	25	0 / 0 / 0	0	0 / 0 / 0	0
	Work placement / internship stage			6	0	0 / 0 / 0	0	0 / 0 / 0	0	2 / 2 / 0	6	0 / 0 / 0	0
	Soft skills – mandatory electives			0	7	0 / 0 / 3	7	0 / 0 / 0	0	0 / 0 / 0	0	0 / 0 / 0	0
	Seminar			0	42	0 / 0 / 0	0	0 / 0 / 0	0	0 / 0 / 8	12	0 / 0 / 20	30
	Master's thesis												
	Total ECTS credits			34	86	8 / 4 / 7	33	0 / 0 / 16	25	4 / 4 / 12	32	0 / 0 / 20	30
				120									

Key: L = Lecture, EP = Exercise or problem-solving class, P = Project or practical training, PA = Preliminary assessment, credits = ECTS credits, u = ungraded, g = graded, credit hrs/wk = no. of class or supervised hours per week during the semester

Appendix B. Example study plans – M.Sc. ‘Media Informatics’

Section 1 General structure

4	Master’s Thesis (30 ECTS credits)				30
3	Master’s Seminar (12 credits)	‘MAD’ Project (8 credits)	Advanced Lecture Course (6 credits)	‘Soft Skills’ Mandatory Electives (6 credits)	32
2	Work Placement / Internship Stage (25 credits)				25
1	Core Lecture (9 credits)	Core Lecture (9 credits)	‘MAD’ Mandatory Electives (8 credits)	Seminar (7 credits)	33

Section 2 Sample study plan

4	Master’s Thesis (30 ECTS credits)				30	
3	Master’s Seminar (12 credits)	‘MAD’ Project (8 credits)	Automata, Games and Verification (6 credits)	Language Courses (6 credits)	32	
2	Work Experience Seminar (5 credits)	Work Placement / Internship (20 credits)			25	
1	Computer Graphics (9 credits)	Verification (9 credits)	‘MAD’ Theoretical Analysis (8 credits)	‘MAD’ Studio (4 credits)	Seminar (7 credits)	33