Anhang B.3

Module Guide Digital Media (Master – Media Design)



ENTWURF

Wintersemester 25/26

Module Guide

for the study of

Digital Media (Type of Study Media Design)

Master of Science

Master Digital Media (Type of Study: Media Design)

Generated: January 22, 2025

Media Design (MD) Master of Arts

1	Introduction to Digital Media DMM-MA-1 6 CP		Media Theory DMM-MT 6 CP	Media Design DMM-md-MD 6 CP	Media Informatics DMM-md-MI 6 CP		26
2		Project 1 DMM-MA-33 18 CP		Free Electives DMM-UN	Special Topics DMM-md-MA-2	Mento- ring DMM-MD-2 6 CP	32
3		Project 2 DMM-MA-34 18 CP		12 CP	12 CP		32
4			Master Thesis DMM-md-MA-4 30 CP				30

Notes:

- The different study areas are color-coded:
- blue Introduction,
- orange Media Design,
- green Media Informatics,
- violet Media Theory,
- light blue Integrated and Extended Fields,
- gray General Studies,
- yellow Thesis
- The module code numbers given above only include the module-specific suffix.
- The complete module code number begins with:

- 03-INF-MA- resp.

- 03-INF-MA-HfK (for a module for which the HfK is responsible)

Index by areas of study

1) Introduction (6 CP)

03-INF-MA-DMM-MA-1: Introduction to Digital Media (6 CP)2
2) Media Informatics (for MD) (6 CP)
03-INF-MA-DMM-md-MI: Media Informatics (6 CP)4
3) Media Design (for MD) (6 CP)
03-INF-MA-HfK-DMM-md-MD: Media Design (6 CP)6
03-INF-MA-HfK-DMM-MD-2: Mentoring (6 CP)8
4) Media Theory (6 CP)
03-INF-MA-HfK-DMM-MT.: Media Theory (6 CP)10
5) Integrated and Extended Fields (for MD) (48 CP)
5) Integrated and Extended Fields (for MD) (48 CP) 03-INF-MA-HfK-DMM-md-MA-2: Special Topics in Digital Media (12 CP)
03-INF-MA-HfK-DMM-md-MA-2: Special Topics in Digital Media (12 CP)
03-INF-MA-HfK-DMM-md-MA-2: Special Topics in Digital Media (12 CP)
03-INF-MA-HfK-DMM-md-MA-2: Special Topics in Digital Media (12 CP)
03-INF-MA-HfK-DMM-md-MA-2: Special Topics in Digital Media (12 CP)

Module 03-INF-MA-DMM-MA-1: Introduction to Digital Media Introduction to Digital Media

Assignment to areas of study:	Content-related prior knowledge or skills:
Introduction	none

Learning content:

- Introduction to the program's aims resources and possibilities.
- Introduction to advanced research on the design and development of digital media
- · Introduction to research and design methods for digital media
- Introduction to critical positions (impact, limitations, possibilities, responsibilities) within science, art and technology in respect to digital media
- · Introduction to intercultural communication and cooperation
- Students present their different cultural backgrounds, their individual strengths and weaknesses using different media.
- Developing case studies on intercultural aspects
- Analysis, construction and presentation of typical intercultural clashes
- Advanced topics of scientific and artistic work (debate, judgment and writing and presentation in any of the above fields.

Learning outcomes / competencies / targeted competencies:

- Students will develop a common understanding about research and design of digital media.
- Students will learn about the essentials in the field of intercultural communication and cooperation.
- Students will acquire skills in understanding current debates in digital media and develop critical judgment of the cultural, social, economic and ecologic impact of digital media.

Calculation of student workload:

124 h Preparation / follow-up work

56 h SWS / presence time / working hours

Are there optional courses in the modules?

no

Language(s) of instruction:	Responsible for the module:
English	Prof. Peter von Maydell
Frequency:	Duration:
winter semester, yearly	1 semester[s]
The module is valid since / The module is valid until: WiSe 16/17 / -	Credit points / Workload: 6 / 180 hours

Module examinations

Module examination: Module Exam Introduction do Digital Media		
Type of examination: module exam		
Form of examination:	The examination is ungraded?	
Announcement at the beginning of the semester	yes	

Number of graded components / ungraded components / prerequisites of the examination: 1 / - / -

Language(s) of instruction:

Englisch

Description:

Active participation, optional presentation and/or documentation

Module courses

Course: Introduction to Digital Media	
Language(s) of instruction: Englisch	
University teacher:	
Lecturers of HfK Lecturers from Computer Science	
-	

Literature:

- Hofstede, Geert (2001): Culture's Consequences Comparing Values, Behaviors, Institutions and Organizations Across Nations, 2nd edition, Thousand Oaks, CA.
- Popper, K. R. (1959). The logic of scientific discovery. New York: Basic Books.
- Chalmers, A. F. (2005). What is this thing called science? (3. ed.). Maidenhead: Open Univ. Press.

Teaching method(s):	Associated module examination:
	Module Exam Introduction do Digital Media

Module 03-INF-MA-DMM-md-MI: Media Informatics

Media Informatics

Assignment to areas of study:	Content-related prior knowledge or skills:
 Media Informatics (for MD) 	Depending on chosen course.

Learning content:

The contents are depending on the chosen alternative.

Learning outcomes / competencies / targeted competencies:

The module offers a spectrum of relevant areas in Digital Media. The students can select from these courses in order to develop an individual profile of expertise. The courses are advanced courses that also introduce students to research questions in Digital Media.

Calculation of student workload:

56 h SWS / presence time / working hours 124 h Self-study

Are there optional courses in the modules?

yes

Selection of two of the courses offered in this module (if not already taken in another module). Currently on offer are e.g.:

M-MI/1 Advanced Computer Graphics

M-MI/2 Entertainment Computing

M-MI/3 Embodied Interaction

M-MI/4 Selected Topics of Human Computer Interaction

M-MI/5 Virtual Reality and Physically-Based Simulation

M-MI/6 Massively-Parallel Algorithms

Short descriptions of the courses can be found at:

https://lvb.informatik.uni-bremen.de/dmm/

(The courses on offer will be updated depending on the capacities of available personnel.)

Language(s) of instruction:	Responsible for the module:
English	Prof.Dr. Rainer Malaka
Frequency:	Duration:
each semester	1 semester[s]
The module is valid since / The module is valid until: WiSe 25/26 / -	Credit points / Workload: 6 / 180 hours

Module examinations

Module examination: Module Exam Media Informatics		
Type of examination: module exam		
Form of examination:	The examination is ungraded?	
Announcement at the beginning of the semester	no	

Number of graded components / ungraded components / prerequisites of the examination: 1 / - / -

Language(s) of instruction:

Englisch

Description:

Will be decided upon by the Lecturer of the specific course: Portfolio, Presentation + Research paper, Term paper or Written/Oral Exam with, if applicable, bonus tasks throughout the semester.

Course: Media Informatics		
Frequency: each semester	Language(s) of instruction: Englisch	
Contact hours:	University teacher:	
4,00	Lecturers from Computer Science	
Literature: Depending on the chosen course.		
Teaching method(s):	Associated module examination: Module Exam Media Informatics	

Module 03-INF-MA-HfK-DMM-md-MD: Media Design Media Design

Assignment to areas of study:	Content-related prior knowledge or skills:
Media Design (for MD)	none

Learning content:

The objective of the course is to provide the students with an overview of the most relevant tools, materials, mechanics and strategies of media design. The students will be introduced to the University's facilities and laboratories relevant to the study of digital media.

Learning outcomes / competencies / targeted competencies:

This course also aims to bridge the differences between the students' different understandings of design and its manifold purposes. By discussing and developing smaller design projects, the course will help to evolve a common design vocabulary to foster communication in the following master project and master thesis.

Calculation of student workload:

124 h Self-study

56 h SWS / presence time / working hours

Are there optional courses in the modules?

yes

Two courses (6 CP each) must be selected from the courses offered by the HfK for this module.

Language(s) of instruction:	Responsible for the module:
English	Prof. Dennis Paul
Frequency:	Duration:
each semester	1 semester[s]
The module is valid since / The module is valid	Credit points / Workload:
until:	6 / 180 hours
WiSe 25/26 / -	

Module examinations

Module examination: Partial Exam Media Design	
Type of examination: partial exam	
Form of examination:The examination is ungraded?Announcement at the beginning of the semesterno	
Number of graded components / ungraded components / prerequisites of the examination:	

Language(s) of instruction:	
Englisch	

Description:

1 partial examination in each of the selected courses. Weighting according to the amount of CPs of the respective course.

Active participation, optional presentation and/or documentation

Course: Media Design	
Frequency:	Language(s) of instruction:
each semester	Englisch
Contact hours: University teacher:	
-	Lecturers of HfK
Literature:	!
If applicable literature lists will be hand	ed out according to the topics at the beginning of each course.
Additional comments:	
In general, each course offered in this	module comprises of lectures of 4 or 2 hours per week (6 CP or 3
CP, respectively).	
Teaching method(s):	Associated module examination:
	Partial Exam Media Design

Module 03-INF-MA-HfK-DMM-MD-2: Mentoring Mentoring

Assignment to areas of study:	Content-related prior knowledge or skills:
Media Design (for MD)	none

Learning content:

Mentors support the individual development of students by helping them with their course choices, setting their own areas of focus, deepening areas of interest, dealing with various challenges that can influence the course of studies and with all questions regarding subsequent educational or career paths.

In the first semesters, the focus is primarily on getting started with the course of studies; in the middle of the course of studies, the focus is on finding and developing individual areas of focus. Towards the end of the course, the focus is increasingly on either conceptual and practical questions regarding professionalisation, such as possible fields of work and employers, different forms of employment, as well as the development of adequate strategies and references, or on appropriate support for the successful selection of further educational cycles.

Learning outcomes / competencies / targeted competencies:

Students are enabled to:

- actively plan their own course of study in a purposeful way

- critically reflect on and evaluate study and career decisions

- develop and advance suitable specializations

- develop their own criteria for transferability in their profession and/or further educational cycles

- develop individual professionalization strategies

Calculation of student workload:

42 h SWS / presence time / working hours 48 h Self-study

Are there optional courses in the modules?

yes

All students are assigned a mentor by the first semester, who will support them throughout their studies. Mentees can transfer to another mentor if they wish.

Language(s) of instruction:	Responsible for the module:
English	Prof. Dennis Paul
Frequency:	Duration:
each semester	3 semester[s]
The module is valid since / The module is valid	Credit points / Workload:
until:	6 / 180 hours
WiSe 25/26 / -	

Module examinations

Module examination: Partial Exam Mentoring

Type of examination: partial exam		
Form of examination: Announcement at the beginning of the semester	The examination is ungraded? yes	
Number of graded components / ungraded components / prerequisites of the examination: - / - / -		
Language(s) of instruction: Englisch		
Description: 1 ungraded coursework in each semester.		
Regular attendance and active participation		

Course: Mentoring	
Frequency: each semester	Language(s) of instruction: Englisch
Contact hours: -	University teacher: Lecturers of HfK
Additional comments: One hour per week	
Teaching method(s):	Associated module examination: Partial Exam Mentoring

Module 03-INF-MA-HfK-DMM-MT.: Media Theory Media Theory

Assignment to areas of study:	Content-related prior knowledge or skills:
Media Theory	none

Learning content:

Seminar at HfK Bremen and at Fachbereich 9 (FB9) of Universität Bremen

The module provides a deepening introduction to technical and aesthetic, as well as to symbolic and communicative qualities of a wide range of media. The historical development and changes of media in correlation with scientific, economic, political and social processes, as well as media's contribution to modes of perception and forms of knowledge will be discussed from a perspective primarily built on cultural studies and mediastudies (mediat heory, media history, media analysis). The scope of this inquiry includes an exploration of media art based on specific works. Current developments will be of special interest in this regard.

Learning outcomes / competencies / targeted competencies:

With its focus on offering a foundational knowledge of media studies, the module is designed to help students develop the profound ability to reflect and analyze media theory and media philosophy throughout a wide range of approaches. By providing interdisciplinary perspectives on cultural, theoretical, and social contexts, students gain keen critical thinking skills and a solid understanding of how to engage in technological developments in a responsible way. They are able to develop researchquestions, choose a research method and reflect on it.

Calculation of student workload:

124 h Self-study 56 h SWS / presence time / working hours

Are there optional courses in the modules?

yes

Selection of courses assigned to this module from the range of courses offered by HfK or FB9 with a total of 6 CP (if not already taken in another module).

Language(s) of instruction:	Responsible for the module:
English	Prof. Dr. Andrea Sick
Frequency:	Duration:
each semester	1 semester[s]
The module is valid since / The module is valid	Credit points / Workload:
until:	6 / 180 hours
WiSe 25/26 / -	

Module examinations

Type of examination: partial exam

Form of examination:	The examination is ungraded?	
Announcement at the beginning of the semester	no	
Number of graded components / ungraded compo	onents / prerequisites of the examination:	
-/-/-		
Language(s) of instruction:		
Englisch		
Description:		
1 partial examination in each of the selected courses.	Weighting according to the amount of CPs of the	
respective course.		
Regular attendance, presentation and term paper		
Module examination: Partial Exam Media Theory (F	B9)	
Type of examination: partial exam		
Form of examination:	The examination is ungraded?	
Announcement at the beginning of the semester	no	
Number of graded components / ungraded components / prerequisites of the examination:		
- / - / -		
Language(s) of instruction:		
Englisch		
Description:		
1 partial examination in each of the selected courses. Weighting according to the amount of CPs of the		
respective course.		
••••••		
Module courses		
Course: Media Theory (HfK)		
F ree 4110 - 100	I annual (a) of instruction.	

Frequency:	Language(s) of instruction:
each semester	Englisch
Contact hours:	University teacher:
4,00	Lecturers of HfK

Literature:

Depending on the chosen lecture.

Additional comments:

In general, each course offered in this module comprises of lectures of 4 or 2 hours per week (6 CP or 3 CP, respectively).

Teaching method(s):	Associated module examination:
	Partial Exam Media Theory (HfK)

Course: Media Theory (FB9)

Frequency:	Language(s) of instruction:
each semester	Englisch
Contact hours:	University teacher:
-	Lecturers from Faculty 09

Literature:	
Depending on the chosen lecture.	
Additional comments: In general, each course offered in this module comprises of lectures of 4 or 2 hours per week (6 CP or 3 CP, respectively).	
Teaching method(s):	Associated module examination: Partial Exam Media Theory (FB9)

Module 03-INF-MA-HfK-DMM-md-MA-2: Special Topics in Digital Media Special Topics in Digital Media Assignment to areas of study: Content-related prior knowledge or skills: Integrated and Extended Fields (for MD) Depending on the chosen courses Learning content: Free choice between Media Design (M-MD), Media Informatics (M- MI), Media Theory (M-MT). Media Informatics See corresponding module descriptions Media Design The content of the course focuses on more specific topics. The range may extend from topics with a clearly technological focus investigating very specific new, digital or emergent technology from a designers point of view, to topics investigating niche aspects of media design or media art. Media Theory Drawing on exemplary topics, the course conveys methods to analyze media, as well as theories that describe general qualities of media, mediality and media technologies. Current developments will be of special interest in this regard. Relationships to artistic, creative and technological processes will be researched and identified. Learning outcomes / competencies / targeted competencies: The courses will teach in depth knowledge on selected topics of Digital Media. Calculation of student workload: 112 h SWS / presence time / working hours 248 h Self-study Are there optional courses in the modules? ves Selection of one of the courses offered in this module (if not already taken in another module). Language(s) of instruction: Responsible for the module: Prof. Dennis Paul English Frequency: Duration: each semester 2 semester[s] The module is valid since / The module is valid Credit points / Workload: 12 / 360 hours until: WiSe 25/26 / -Module examinations Module examination: Partial Exams Special Topics of Digital Media (Uni Bremen)

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Type of examination: partial exam	
Form of examination:	The examination is ungraded?
Announcement at the beginning of the semester	no

Number of graded components / ungraded components / prerequisites of the examination:

-/-/-

Language(s) of instruction:

Englisch

Description:

1 Partial Exam for each chosen course. Weighting according to the amount of CPs of the respective course.

Module examination: Partial Exams Special Topics of Digital Media (HfK)

Type of examination: partial exam

Form of examination:	The examination is ungraded?
Announcement at the beginning of the semester	no

Number of graded components / ungraded components / prerequisites of the examination:

Language(s) of instruction:

Englisch

Description:

1 Partial Exam for each chosen course. Weighting according to the amount of CPs of the respective course.

Project work, project report, presentation, documentation and colloquia

Course: Special Topics in Digital Media Uni Bremen)		
Frequency: each semester	Language(s) of instruction: Englisch	
Contact hours: -	University teacher: Lecturers from Faculty 09 Lecturers from Computer Science	
Literature: Depending on chosen course		
Additional comments: In general, each course offered in this module comprises of lectures of 4 or 2 hours per week (6 CP or 3 CP, respectively).		
Teaching method(s):	Associated module examination: Partial Exams Special Topics of Digital Media (Uni Bremen)	
Course: Special Topics in Digital Media (HfK)	

Contact hours:	University teacher:	
-	Lecturers of HfK	
Literature:		
Depending on the chosen course; to be determined in consultation with advisor		
Additional comments: In general, each course offered in this module comprises of lectures of 4 or 2 hours per week (6 CP or 3 CP, respectively).		
Teaching method(s):	Associated module examination: Partial Exams Special Topics of Digital Media (HfK)	

Module 03-INF-MA-HfK-DMM-MA-33: Project 1 Project 1

Assignment to areas of study:	Content-related prior knowledge or skills:
 Integrated and Extended Fields (for MD) 	none

Learning content:

Each project will be supervised by two or more advisors with different areas of expertise (e.g. media theory, design practice, interface design or media art). The structure of Project 1 and 2 is designed to enable students to engage with either two separate projects or with one longer project spanning both semesters.

Additional seminars in media and design theory and technical skills workshops will be organized in relation to the chosen themes, and a compulsory plenary session will take place each week. The project will be presented in an appropriate form at the end of the term.

Students work on a complex topic with relevance to society, science, technology, art or design. The project work includes the following elements:

- analysis of the topic
- · development of a concept/definition of objectives
- individual or group project planning
- · research and presentation of the state of the art
- · identification of suitable technologies and methodologies
- implementation
- preparation of final results in form of exhibitions, demonstrations or other presentation formats
- · documentation of the project
- · reflection and evaluation of the final project outcome

Learning outcomes / competencies / targeted competencies:

The students are able to work theoretically and practically on complex topics in a medium-sized, selforganized team or individually. They do not only apply existing knowledge in design, the arts and science, but also develop new concepts and methods.

Calculation of student workload:

168 h SWS / presence time / working hours 372 h Self-study

Are there optional courses in the modules?

no

Language(s) of instruction:	Responsible for the module:
English	Prof. Peter von Maydell
Frequency:	Duration:
each semester	1 semester[s]
The module is valid since / The module is valid	Credit points / Workload:
until:	18 / 540 hours
- / -	

Module examinations

Module examination: Module Exam Project 1		
Type of examination: module exam		
Form of examination: The examination is ungraded?		
Announcement at the beginning of the semester	no	
Number of graded components / ungraded components / prerequisites of the examination:		
1 / - / -		
Language(s) of instruction:		
Englisch		
Description:		
Active participation in plenary, presentation and do	cumentation	

Course: Project 1	
Frequency:	Language(s) of instruction:
each semester	Englisch
Contact hours:	University teacher:
12,00	Lecturers of HfK
Literature: Depending on the project topic; to be determined in consultation with advisor	
Teaching method(s):	Associated module examination:
Project	Module Exam Project 1

Module 03-INF-MA-HfK-DMM-MA-34: Project 2 Project 2

Assignment to areas of study:	Content-related prior knowledge or skills:
 Integrated and Extended Fields (for MD) 	none

Learning content:

Each project will be supervised by two or more advisors with different areas of expertise (e.g. media theory, design practice, interface design or media art). The structure of Project 1 and 2 is designed to enable students to engage with either two separate projects or with one longer project spanning both semesters.

Additional seminars in media and design theory and technical skills workshops will be organized in relation to the chosen themes, and a compulsory plenary session will take place each week. The project will be presented in an appropriate form at the end of the term.

Students work on a complex topic with relevance to society, science, technology, art or design. The project work includes the following elements:

- analysis of the topic
- · development of a concept/definition of objectives
- individual or group project planning
- · research and presentation of the state of the art
- · identification of suitable technologies and methodologies
- implementation
- preparation of final results in form of exhibitions, demonstrations or other presentation formats
- · documentation of the project
- reflection and evaluation of the final project outcome

Learning outcomes / competencies / targeted competencies:

The students are able to work theoretically and practically on complex topics in a medium-sized, selforganized team or individually. They do not only apply existing knowledge in design, the arts and science, but also develop new concepts and methods.

Calculation of student workload:

372 h Self-study168 h SWS / presence time / working hours

Are there optional courses in the modules?

Language(s) of instruction:	Responsible for the module:
English	Prof. Peter von Maydell
Frequency:	Duration:
each semester	1 semester[s]
The module is valid since / The module is valid until: WiSe 25/26 / -	Credit points / Workload: 18 / 540 hours

Module examinations

Module examination: Module Exam Project 2	
Type of examination: module exam	
Form of examination:	The examination is ungraded?
Announcement at the beginning of the semester	no
Number of graded components / ungraded com 1 / - / -	ponents / prerequisites of the examination:
Language(s) of instruction: Englisch	
Description:	
Active participation in plenary, presentation and do	cumentation

Course: Project 2		
Frequency: each semester	Language(s) of instruction: Englisch	
Contact hours: 12,00	University teacher: Lecturers of HfK	
Literature: Depending on the project topic; to be determined in co	onsultation with advisor	
Teaching method(s):Associated module examination:ProjectModule Exam Project 2		

Module 03-INF-MA-HfK-DMM-md-MA-4: Master Thesis Master Thesis

Assignment to areas of study:	Content-related prior knowledge or skills:
Master Thesis (for MD)	Depending on the chosen topic

Learning content:

Development and preparation of an original and comprehensive creative-artistic final thesis including a research proportion. Students link creative-artistic and scientific competences applying methods from science, arts and design.

Learning outcomes / competencies / targeted competencies:

The students are able to work theoretically, empirically, and practically on complex problems and innovative solutions in the field of digital media production and use. To this end, they employ methods of science as well as of the arts and artistic design. They work on their own initiative, set up schedules, and meet deadlines.

Calculation of student workload:

840 h Self-study

60 h Preparation / follow-up work

Are there optional courses in the modules?

Language(s) of instruction:	Responsible for the module:
English	Dr. Petra Klusmeyer
Frequency:	Duration:
each semester	1 semester[s]
The module is valid since / The module is valid	Credit points / Workload:
until:	30 / 900 hours
WiSe 25/26 / -	

Module examinations

Module examination: Master Thesis	
Type of examination: module exam	
Form of examination:	The examination is ungraded?
Master Thesis	no

Number of graded components / ungraded components / prerequisites of the examination: 1 / - / -

Language(s) of instruction:

Englisch

Module examination: Colloquium

Type of examination: module exam

Form of examination: Colloquium	The examination is ungraded? yes
Number of graded components / ungraded compo	onents / prerequisites of the examination:
Language(s) of instruction: Englisch	

Module 03-INF-MA-DMM-UN.: Free Electives

Free Electives

Assignment	to	areas	of	studv:
/		4.040	•••	

General Studies

Content-related prior knowledge or skills: Depending on the chosen courses.

Learning content:

Depending on the chosen courses.

Learning outcomes / competencies / targeted competencies:

Depending on the chosen courses.

Calculation of student workload:

Are there optional courses in the modules?

yes

Free Electives can include courses from both the Supplementary Studies and the Digital Media programm. Supplementary studies are courses outside of Digital Media.

In principle, courses that have a significant content overlap with other modules cannot be credited.

Language(s) of instruction: English / German	Responsible for the module: Prof. Dr. Ute Bormann
Frequency: each semester	Duration:
The module is valid since / The module is valid until: WiSe 24/25 / -	Credit points / Workload: 12 / 360 hours

This module is ungraded!

Module examinations

Module examination: Partial Exam Free Electives	
Type of examination: partial exam	
Form of examination:	The examination is ungraded?
Announcement at the beginning of the semester	yes
Number of graded components / ungraded com	ponents / prerequisites of the examination:
Language(s) of instruction:	
Englisch / German	
Description:	

The coursework to be completed may consist of several parts. A total of 12 CP must be completed in examinations and/or coursework. If graded partial examinations have been completed, they can also be graded at the student's request.

Course: Free Electives	
Frequency:	Language(s) of instruction:
each semester	Englisch / German
Contact hours:	University teacher:
-	
Literature:	
Depending on the chosen courses.	
Additional comments:	
This module consists of courses with a	total of 12 CP. The number of courses chosen for this is irrelevant.
The specific courses listed below are the	e courses offered by FB3 in the current semester. University-wide
courses on supplementary studies can l	be found at [LINK]. In addition, courses from any other subject can
also be credited in principle.	
Teaching method(s):	Associated module examination:
	Partial Exam Free Electives