Module Catalogue

for the Subject

Digital Humanities

as a Master's with 1 major

with the degree "Master of Arts"

(120 ECTS credits)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Contents

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

The subject is divided into

section / sub-section	ECTS credits	starting page
Compulsory Courses	70	6
Compulsory Electives	20	20
Thesis	30	29

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Content and Objectives of the Programme

Students of Digital Humanities learn the application of computer-supported procedures and the systematic use of digital resources in humanities and cultural sciences. This subject has an interdisciplinary orientation, and its representatives are distinguished by a traditional training in humanities and cultural sciences as well as by their familiarity with a series of relevant concepts, procedures and standards in information technology. Typical research and work areas include: digitization, digital editions and corpora, formal modelling of knowledge in humanities and cultural sciences, quantitative text analysis, visualisation of complex data structures, digital libraries, development and use of digital tools for humanists, theories of digital media.

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Abbreviations used

Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Notes

Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should the module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with

the general regulations governing the degree subject described in this module catalogue:

> **ASPO2009**

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

> **15-Jul-2013 (2013-86)**

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Compulsory Courses

(70 ECTS credits)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Creating Digital Objects 1		04-DH-G1-112-m01

Module coordinator		Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period		Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Advanced methods of creation and management of digital objects and their presentation. Sophisticated techniques and markup methods.

Intended learning outcomes

Students are able to create and annotate digital objects and to select and use appropriate standards with respect to efficiency and sustainability.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) or assignments to be completed at home (4 out of 6, approx. 2 pages each) or presentation (approx. 15 minutes) with written elaboration (approx. 5 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Creating Digital Objects 2		04-DH-G2-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	graduate	--	

Contents

Advanced methods of creation and management of digital objects and their presentation. Sophisticated techniques and markup methods.

Intended learning outcomes

Students are able to create and annotate digital objects and to select and use appropriate standards with respect to efficiency and sustainability.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

term paper (approx. 15 to 20 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Practice of Digital Objects 1		04-DH-H1-112-m01

Module coordinator		Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period		Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Fundamentals of human-computer interaction (HCI), visualisation of information structures, presentation of texts using digital media.

Intended learning outcomes

Students are able to develop and technically implement visualisation concepts for digital objects and, in particular, for texts.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) or assignments to be completed at home (4 out of 6, approx. 2 pages each) or presentation (approx. 15 minutes) with written elaboration (approx. 5 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title			Abbreviation
Presenting Digital Objects 2			04-DH-H2-112-m01

Module coordinator		Module offered by	
holder of the Chair of Digital Humanities and German Literature of the Modern Period		Chair of Digital Humanities and German Literature of the Modern Period	

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	

Duration	Module level	Other prerequisites	
1 semester	graduate	--	

Contents

Fundamentals of human-computer interaction (HCI), visualisation of information structures, presentation of texts using digital media.

Intended learning outcomes

Students are able to develop and technically implement visualisation concepts for digital objects and, in particular, for texts.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

term paper (approx. 15 to 20 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Practice of Digital Objects 1		04-DH-l1-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Application of complex software libraries, advanced programming techniques.

Intended learning outcomes

Students are able to use complex software libraries and to independently develop problem solutions.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) or assignments to be completed at home (4 out of 6, approx. 2 pages each) or presentation (approx. 15 minutes) with written elaboration (approx. 5 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title			Abbreviation	
Practice of Digital Objects 2			04-DH-l2-112-m01	
Module coordinator			**Module offered by**	
holder of the Chair of Digital Humanities and German Literature of the Modern Period			Chair of Digital Humanities and German Literature of the Modern Period	
ECTS	**Method of grading**		**Only after succ. compl. of module(s)**	
5	numerical grade		--	
Duration	**Module level**		**Other prerequisites**	
1 semester	graduate		--	
Contents				
Application of complex software libraries, advanced programming techniques.				
Intended learning outcomes				
Students are able to use complex software libraries and to independently develop problem solutions.				
Courses (type, number of weekly contact hours, language — if other than German)				
S (no information on SWS (weekly contact hours) and course language available)				
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)				
term paper (approx. 15 to 20 pages)				
Allocation of places				
--				
Additional information				
--				
Workload				
--				
Teaching cycle				
--				
Referred to in LPO I (examination regulations for teaching-degree programmes)				
--				
Module appears in				
Master's degree (1 major) Digital Humanities (2011)				

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title			Abbreviation
Processing and analyzing Digital Objects 1			04-DH-J1-112-m01

Module coordinator		Module offered by	
holder of the Chair of Digital Humanities and German Literature of the Modern Period		Chair of Digital Humanities and German Literature of the Modern Period	

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	

Duration	Module level	Other prerequisites	
1 semester	graduate	--	

Contents

Work on exemplary research questions using methods of the digital humanities, analysis of digital objects.

Intended learning outcomes

Students are able to answer research questions using computer-based methods and to analyse digital objects.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

term paper (approx. 15 to 20 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Processing And Analyzing Digital Objects 2		04-DH-J2-112-m01

Module coordinator		Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period		Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Work on exemplary research questions using methods of the digital humanities, analysis of digital objects.

Intended learning outcomes

Students are able to answer research questions using computer-based methods and to analyse digital objects.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) or assignments to be completed at home (4 out of 6, approx. 2 pages each) or presentation (approx. 15 minutes) with written elaboration (approx. 5 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Managing Digital Objects 1		04-DH-K1-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	(not) successfully completed	--	

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Project management, virtual research environments, scientific content management systems, digital library and digital information systems.

Intended learning outcomes

Students are familiar with selected state-of-the-art virtual research environments and research data repositories. They are also familiar with the fundamental principles of professional project management and are able to model typical workflows using these means.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) or assignments to be completed at home (4 out of 6, approx. 2 pages each) or presentation (approx. 15 minutes) with written elaboration (approx. 5 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Managing Digital Objects 2		04-DH-K2-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Project management, virtual research environments, scientific content management systems, digital library and digital information systems.

Intended learning outcomes

Students are familiar with selected state-of-the-art virtual research environments and research data repositories. They are also familiar with the fundamental principles of professional project management and are able to model typical workflows using these means.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

term paper (approx. 15 to 20 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

UNIVERSITÄT WÜRZBURG
Julius-Maximilians-

Module title		Abbreviation
Modelling Digital Objects 1		04-DH-L1-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	(not) successfully completed	--	

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Advanced concepts of data modelling, evaluation of complex digital objects.

Intended learning outcomes

Students are able to model digital objects semantically and assess them from the perspective of a humanities discipline.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes) or assignments to be completed at home (4 out of 6, approx. 2 pages each) or presentation (approx. 15 minutes) with written elaboration (approx. 5 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Modelling Digital Objects 2		04-DH-L2-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)	
5	numerical grade	--	
Duration	**Module level**	**Other prerequisites**	
1 semester	graduate	--	

Contents

Advanced concepts of data modelling, evaluation of complex digital objects.

Intended learning outcomes

Students are able to model digital objects semantically and assess them from the perspective of a humanities discipline.

Courses (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

term paper (approx. 15 to 20 pages)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title			Abbreviation
Project in Digital Humanities			04-DH-M-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)	
10	(not) successfully completed	--	

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Practical application of the knowledge and skills developed in the Bachelor's programme Digital Humanities to a defined research project.

Intended learning outcomes

Students are able to define a research problem, develop integratable methods to solve the problem and implement these methods in appropriate steps.

Courses (type, number of weekly contact hours, language — if other than German)

R (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

project report (approx. 10 to 15 pages) and project result (program, encoded digital etc.)

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Compulsory Electives

(20 ECTS credits)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Algorithm and data structures		10-I-ADS-102-mo1

Module coordinator	Module offered by
Dean of Studies Informatik (Computer Science)	Institute of Computer Science

ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).

Contents

Design and analysis of algorithms, recursion vs. iteration, sort and search methods, data structures, abstract data types, lists, trees, graphs, basic graph algorithms, programming in Java.

Intended learning outcomes

The students are able to independently design algorithms as well as to precisely describe and analyse them. The students are familiar with the basic paradigms of the design of algorithms and are able to apply them in practical programs. The students are able to estimate the run-time behaviour of algorithms and to prove their correctness.

Courses (type, number of weekly contact hours, language — if other than German)

V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 49 (1) 1. a) Informatik Theoretische Informatik, Algorithmen und Datenstrukturen
§ 69 (1) 1. a) Informatik Theoretische Informatik, Algorithmen und Datenstrukturen

Module appears in

Bachelor' degree (1 major) Computer Science (2010)
Bachelor' degree (1 major) Mathematics (2012)
Bachelor' degree (1 major) Mathematics (2013)
Bachelor' degree (1 major) Economathematics (2012)
Bachelor' degree (1 major) Computational Mathematics (2012)
Bachelor' degree (1 major) Computational Mathematics (2013)
Master's degree (1 major) Digital Humanities (2011)
First state examination for the teaching degree Realschule Computer Science (2012)
First state examination for the teaching degree Gymnasium Computer Science (2009)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Practical Course in Programming		10-I-PP-102-m01

Module coordinator		Module offered by
Dean of Studies Informatik (Computer Science)		Institute of Computer Science

ECTS	Method of grading	Only after succ. compl. of module(s)
10	(not) successfully completed	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	Admission prerequisite to assessment: exercises (type and scope to be announced by the lecturer at the beginning of the course).

Contents

The programming language Java. Independent creation of small to middle-sized, high-quality Java programs.

Intended learning outcomes

The students are able to independently develop small to middle-sized, high-quality Java programs.

Courses (type, number of weekly contact hours, language — if other than German)

P (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 80 to 90 minutes). If announced by the lecturer by four weeks prior to the examination date, the written examination can be replaced by an oral examination of one candidate each or an oral examination in groups. A 80 to 90 minute written examination is equivalent to a 20 minute (approx.) oral examination of one candidate each, a 30 minute (approx.) oral examination in groups of 2 and a 40 minute (approx.) oral examination in groups of 3.

Allocation of places

--

Additional information

Additional information on module duration: 1 to 2 semesters.

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 49 (1) 1. c) Informatik Praktische Softwareentwicklung
§ 69 (1) 1. d) Informatik Praktische Softwareentwicklung

Module appears in

Bachelor' degree (1 major) Computer Science (2010)
Bachelor' degree (1 major) Mathematics (2012)
Bachelor' degree (1 major) Mathematics (2013)
Bachelor' degree (1 major) Computational Mathematics (2012)
Bachelor' degree (1 major) Computational Mathematics (2013)
Bachelor' degree (1 major) Aerospace Computer Science (2009)
Bachelor' degree (1 major) Aerospace Computer Science (2011)
Master's degree (1 major) Digital Humanities (2011)
First state examination for the teaching degree Realschule Computer Science (2012)
First state examination for the teaching degree Gymnasium Computer Science (2009)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Computer Science in Media 1		06-MK-MedInf1-102-m01

Module coordinator		Module offered by
holder of the Professorship of Media Informatics		Institute of Human Computer Media

ECTS	Method of grading	Only after succ. compl. of module(s)
6	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

Contents

Media computer science is an interdisciplinary field of teaching and research, dealing with various aspects of information processing in the context of digital media. The module *Medieninformatik 1* (*Computer Science for Media 1*) provides students with a fundamental knowledge and a practical overview of current digital media types.

Intended learning outcomes

Students are familiar with the central concepts of media informatics. They have a basic knowledge of information processing with a special focus on digital media.

Courses (type, number of weekly contact hours, language — if other than German)

V + T (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or b) written examination (approx. 40 minutes) with exercises (40 hours), weighted 5:1 or c) oral examination of one candidate each (approx. 30 minutes) or d) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or e) term paper (15 to 20 pages) or f) portfolio (maximum 20 pages)
Language of assessment: German, English

Allocation of places

Digital Humanities Master's (120 ECTS): maximum 10 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot.

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Bachelor' degree (1 major) Media Communication (2012)
Bachelor' degree (1 major) Media Communication (2010)
Master's degree (1 major) Digital Humanities (2011)
First state examination for the teaching degree Gymnasium Computer Science (2009)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title	Abbreviation
Computer Science in Media 2	06-MK-MedInf2-102-m01

Module coordinator	Module offered by
holder of the Professorship of Media Informatics	Institute of Human Computer Media

ECTS	Method of grading	Only after succ. compl. of module(s)
6	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

Contents

The module *Medieninformatik 2* (*Computer Science for Media 2*) provides deeper knowledge of digital media types and the fundamentals of digital media development and design.

Intended learning outcomes

Students have gained a deeper insight into selected concepts of media computer science. In addition, they are able to develop digital media based on various processes. Thus, a basis is provided for academic work as well as for acquiring practically relevant media skills.

Courses (type, number of weekly contact hours, language — if other than German)

V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 60 minutes) or b) written examination (approx. 40 minutes) with exercises (40 hours), weighted 5:1 or c) oral examination of one candidate each (approx. 30 minutes) or d) presentation (15 to 30 minutes) with written elaboration (10 to 15 pages) or e) term paper (15 to 20 pages) or f) portfolio (maximum 20 pages)
Language of assessment: German, English

Allocation of places

Digital Humanities Master's (120 ECTS): maximum 10 places. Places will be allocated according to the number of subject semesters. Among applicants with the same number of subject semesters, places will be allocated by lot.

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Bachelor' degree (1 major) Media Communication (2012)
Bachelor' degree (1 major) Media Communication (2010)
Master's degree (1 major) Digital Humanities (2011)
First state examination for the teaching degree Gymnasium Computer Science (2009)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title	Abbreviation
Introduction to Human-Computer Interaction	06-MCI-Einf-101-m01

Module coordinator	Module offered by
holder of the Chair of Computer Science IX	Institute of Computer Science

ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

Contents

Human-computer interaction is concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. This course gives an introduction to the principle biological, physiological, and psychological constraints as defined by the human user and relates these constraints to the conceptual and technical solutions of today's computer systems and existing as well as prospective interaction metaphors between humans and computers. The course covers topics in the area of human perception and cognition, memory and attention, the design of interactive systems, prominent evaluation methods, the principles of computer systems, typical input processing techniques, interface technology, and examples of typical interaction metaphors, from text-based input to graphical desktops to multimodal interfaces. Accompanying lab work will introduce students to typical tasks in this field, i. e. prominent evaluation methods and prototyping of interfaces.

Intended learning outcomes

At the end of the course, the students will have developed a broad understanding of the principles underlying the design of interfaces between human users and computer systems. They will understand the constraints and capabilities of current user interfaces, and they will have learned about the necessary steps involved in user-centred design and development approaches.

Courses (type, number of weekly contact hours, language — if other than German)

V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) written examination (approx. 75 minutes) and presentation (approx. 10 minutes) and written elaboration (approx. 10 pages, ungraded) or b) written examination (approx. 75 minutes) and written elaboration (approx. 5 pages) and presentation (approx. 15 minutes)
Language of assessment: German or English

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Bachelor' degree (1 major) Human-Computer Systems (2010)
Master's degree (1 major) Business Information Systems (2013)
Master's degree (1 major) Media Communication (2014)
Master's degree (1 major) Media Communication (2013)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title			Abbreviation
Introduction to Ergonomics			06-MCS-EinfErgon-132-m01

Module coordinator		Module offered by
holder of the Chair of Psychological Ergonomics		Institute of Human Computer Media

ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

Contents

This module will acquaint students with the fundamental principles of cognitive, physical and, in parts, organisational ergonomics, focusing on the importance of research findings for work design as well as on the design principles and guidelines that should be followed. In addition, the module will provide students with an overview of the subject, phenomena and theories of general psychology (Allgemeine Psychologie 1) including the areas of learning, action control, perception, attention, conceptualisation and language as well as memory and knowledge.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Die Studierenden erlangen Kenntnis über die Leistungsfähigkeit menschlicher Informationsverarbeitung und Handlungsfähigkeit welche eine wichtige Grundlage für die Gestaltung von Arbeitsumgebungen und Mensch-System-Schnittstellen ist. Die Studierenden können die physikalische, physiologische und informatorische Beanspruchung des Menschen in einer Arbeitsumgebung bewerten und durch Lösungsansätze aus der Ergonomie die Belastung gezielt steuern und ggf. begrenzen. Zugleich erwerben die Studierenden Grundlagenkenntnisse aus Teilgebieten der Psychologie, auf denen später im Studium aufgebaut wird.

Courses (type, number of weekly contact hours, language — if other than German)

V (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes)
Language of assessment: German or English

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (1 major) Media Communication (2014)
Master's degree (1 major) Media Communication (2013)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title		Abbreviation
Usability and Software Ergonomics		06-MCS-Usab-101-m01

Module coordinator		Module offered by
holder of the Chair of Psychological Ergonomics		Institute of Human Computer Media

ECTS	Method of grading	Only after succ. compl. of module(s)
10	numerical grade	--

Duration	Module level	Other prerequisites
1 semester	undergraduate	--

Contents

This module will acquaint students with analytical as well as empirical methods for the evaluation of the usability and user experience of interactive devices and will provide them with an opportunity to apply these. Having been introduced to these methods during the lecture, students will apply selected methods to examples during the exercise. In addition, students will independently evaluate two interactive devices in small teams; they will plan, conduct and analyse a usability evaluation, will critically compare different methods and will deliver a presentation on the results of their work.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Die Studierenden kennen analytische und empirische Methoden zur Usability-Evaluation Interaktiver Produkte und besitzen Fachkompetenz in der Planung, Durchführung und Auswertung von Usability-Evaluationen. Auch die Fähigkeit zur Arbeit in Teams wird ausgebildet.

Courses (type, number of weekly contact hours, language — if other than German)

V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

presentation (approx. 20 minutes) and project report (approx. 12 pages)
Language of assessment: German or English

Allocation of places

--

Additional information

--

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Bachelor' degree (1 major) Human-Computer Systems (2010)
Master's degree (1 major) Digital Humanities (2011)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Thesis

(30 ECTS credits)

Module Catalogue for the Subject
Digital Humanities
Master's with 1 major, 120 ECTS credits

Module title	Abbreviation
Master Thesis in Digital Humanities	04-DH-MA-112-m01

Module coordinator	Module offered by
holder of the Chair of Digital Humanities and German Literature of the Modern Period	Chair of Digital Humanities and German Literature of the Modern Period

ECTS	Method of grading	Only after succ. compl. of module(s)	
30	numerical grade	--	

Duration	Module level	Other prerequisites
1 semester	graduate	--

Contents

Preparation of an academically sound Master's thesis within a given time frame. In their thesis, students will work on a research question in the digital humanities in a practical and application-oriented way. Depending on the topic of the thesis, students will be required to incorporate and discuss relevant theories, interdisciplinary relations as well as current research methods and to conduct a literature search.

Intended learning outcomes

Students develop the ability to independently explore a specific problem in the digital humanities within a given time frame. They formulate the research question, investigate it and then interpret, present and discuss their findings in an appropriate and application oriented way.

Courses (type, number of weekly contact hours, language — if other than German)

no courses assigned

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written thesis (approx. 80 pages)

Allocation of places

--

Additional information

Additional information on module duration: 6 months.

Workload

--

Teaching cycle

--

Referred to in LPO I (examination regulations for teaching-degree programmes)

--

Module appears in

Master's degree (2 majors) Digital Humanities (2012)
Master's degree (1 major) Digital Humanities (2011)