

Module Catalogue for the Subject

Human-Computer Systems

as a Bachelor's with 1 major with the degree "Bachelor of Science" (180 ECTS credits)

Examination regulations version: 2010 Responsible: Faculty of Human Sciences Responsible: Institute of Human Computer Media



Contents

| The subject is divided into | 3 |
|--|------------|
| Content and Objectives of the Programme | 4 |
| Abbreviations used, Conventions, Notes, In accordance with | |
| | 5 |
| Compulsory Courses | 6 |
| Introduction to Human-Computer Interaction | 7 |
| Foundations of Algorithms and Data Structures | 9 |
| Foundations of Psychological Ergonomics Statistics | 10 |
| Software Technology | 11 13 |
| Introductory Programming Course | 15 |
| Selected Areas of Psychology | 16 |
| Software Development | 17 |
| Usability and Software Ergonomics | 18 |
| Research Methods | 19 |
| Interactive Computer Graphics | 21 |
| Methods for User-Centered Design | 22 |
| Instructional Psychology for MCS | 23 |
| Current Trends of Human-Computer Systems | 24 |
| Research Topics in Human-Computer Systems | 25 |
| Compulsory Electives | 26 |
| Specialization MCS 1 | 27 |
| Specialization MCS 2 | 28 |
| Interactive Systems 1 | 29 |
| Interactive Systems 2 | 30 |
| Current Trends in Human-Computer Interaction | 31 |
| Accessibility and Universal Usability | 32 |
| Specialisation Usability | 33 |
| Specialisation User Experience | 34 |
| Specialisation Human Factors Game Lab | 36 |
| Computer Science in Media 1 | 38 |
| MCS Project Psychology | 40 41 |
| MCS Project Computer Science | 42 |
| MCS Project Interdisciplinary | 43 |
| Thesis | |
| Bachelor's Thesis | 44 |
| | 45 |
| Subject-specific Key Skills | 46 |
| Exhibition | 47 |
| Internship | 4 9 |



The subject is divided into

| section / sub-section | ECTS credits | starting page |
|-----------------------------|--------------|------------------|
| Compulsory Courses | 118 | 6 |
| Compulsory Electives | 30 | 26 |
| Thesis | 12 | 44 |
| Subject-specific Key Skills | 15 | 46 |



Content and Objectives of the Programme

The Bachelor of Human-Computer Systems is an interdisciplinary course of studies that teaches field-related competencies as well as competencies in computer science and psychology. The program imparts substantial knowledge on the following subjects:

- Programming and programming techniques;
- Software design and analysis;
- Psychological and physiological characteristics of users;
- Foundations of Usability, User Experience and Human Factors;
- User interface design of interactive systems;
- Interaction techniques and paradigms;
- Statistical methods.

Graduates acquire the following methodological competencies:

- Analytic thinking and planning and the ability to abstract;
- · Algorithmic thinking and design;
- Mastery of methods and methodologies for the analysis, design and evaluation of humancomputer systems;
- Substantial skills in designing experiments, data collection, and interpretation.

Graduates can apply their knowledge and their skills in their occupational or professional context and can develop and advance solutions to problems and arguments in their field of work. They can collect, assess and interpret relevant information, in particular on their degree programme, and are able to draw scientifically-founded conclusions. They can formulate specialised positions and solutions to problems, can present these verbally or in written form, and can defend these through argument. They can discuss information, ideas, problems and solutions with specialists and non-specialists and can take on responsibility in a team.



Abbreviations used

Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\ddot{\mathbf{U}} = \text{exercise}$, $\mathbf{V} = \text{lecture}$

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:

ASP02009

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

16-Jan-2013 (2013-2)

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.



Compulsory Courses

(118 ECTS credits)



| Module | Module title | | | | Abbreviation |
|--|--|---------------------|----------------------|-------------------------------|---------------------|
| Introduction to Human-Computer Interaction | | | | | o6-MCI-Einf-101-m01 |
| Module coordinator | | | | Module offered by | |
| holder | holder of the Chair of Computer Science IX | | | Institute of Computer Science | |
| ECTS | Meth | od of grading | Only after succ. cor | npl. of module(s) | |
| 5 | nume | rical grade | | | |
| Duration Module level C | | Other prerequisites | Other prerequisites | | |
| 1 semester undergraduate | | | | | |
| Conten | 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)

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



| Module | Module title Abbreviation | | | | | |
|---|--|--|------------------------------|---|---|--|
| Founda | tions o | of Algorithms and Data S | itructures | | 10-I-GADS-101-m01 | |
| Module | e coord | inator | | Module offered by | | |
| Dean o | Dean of Studies Informatik (Computer Science) | | Science) | Institute of Comput | er Science | |
| ECTS | Metho | od of grading | Only after succ. con | npl. of module(s) | | |
| 10 | nume | rical grade | | | | |
| Duratio | n | Module level | Other prerequisites | | | |
| 1 seme | ster | undergraduate | | site to assessment: ecturer at the beginn | exercises (type and scope to be ing of the course). | |
| Contents | | | | | | |
| | | nalysis of algorithms, rec trees, graphs, basic gra | | | ods, data structures, abstract da- | |
| Intende | ed lear | ning outcomes | | | | |
| studen | ts are f | amiliar with the basic pa | radigms of the design | n of algorithms and a | y describe and analyse them. The are able to apply them in practical as and to prove their correctness. | |
| Course | S (type, r | number of weekly contact hours, | language — if other than Ger | man) | | |
| V + Ü (r | no info | rmation on SWS (weekly | contact hours) and co | ourse language avail | able) | |
| | | Sessment (type, scope, langu le for bonus) | age — if other than German, | examination offered — if no | t every semester, information on whether | |
| | | mination (80 minutes) o of 3: 40 minutes) | r b) oral examination | (one candidate each | : 20 minutes, groups of 2: 30 mi- | |
| Allocat | ion of _l | olaces | | | | |
| | | | | | | |
| Additio | nal inf | ormation | | | | |
| | | | | | | |
| Worklo | ad | | | | | |
| | | | | | | |
| Teaching cycle | | | | | | |
| | | | | | | |
| Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | |
| | | | | | | |
| Module | appea | ars in | | | | |
| | | ree (1 major) Business Ir | | | | |
| Bachel | Bachelor' degree (1 major) Human-Computer Systems (2010) | | | | | |



| Module title | | | | | Abbreviation |
|------------------------|----------------------------------|---|------------------------------|--------------------|---|
| Founda | ations o | of Psychological Ergonon | nics | | o6-MCS-Ergon-101-m01 |
| Module | Module coordinator Module offere | | | | J. |
| holder | of the (| Chair of Psychological Erg | gonomics | Institute of Human | Computer Media |
| ECTS | Metho | od of grading | Only after succ. con | npl. of module(s) | |
| 9 | nume | rical grade | | | |
| Duratio | n | Module level | Other prerequisites | ; | |
| 1 seme | ster | undergraduate | | | |
| Conten | its | | | | |
| tional e | ergonor | | oortance of research | | e, physical and, in parts, organisa sign as well as on the design prin |
| Intend | ed lear | ning outcomes | | | |
| Germai | n inten | ded learning outcomes a | vailable but not trans | slated vet. | |
| Course | S (type, r | cielt steuern und ggf. beg number of weekly contact hours, nformation on SWS (wee | anguage — if other than Ge | | available) |
| Metho | d of ass | | · · | | ot every semester, information on whether |
| | | nation (approx. 120 minu ssessment: German or E | | | |
| Allocat | ion of p | olaces | | | |
| | | | | | |
| Additional information | | | | | |
| | | | | | |
| Workload | | | | | |
| | | | | | |
| Teaching cycle | | | | | |
| | | | | | |
| Referre | ed to in | LPO I (examination regulation | s for teaching-degree progra | ammes) | |
| | | | | | |
| Module | e appea | ars in | | | |



| Module title | | | | | Abbreviation |
|--|---|---------------|----------------------|-------------------------|---------------------|
| Statistics | | | | | 06-PSY-STAT-092-m01 |
| Module coordinator | | | | Module offered by | |
| holder thods | holder of the Professorship of Psychological Research Methods | | | Institute of Psychology | |
| ECTS | Metho | od of grading | Only after succ. con | npl. of module(s) | |
| 12 | nume | rical grade | | | |
| Duration Module level Other prerequisite | | | | | |
| 1 semester undergraduate | | | | | |
| Conte | Contents | | | | |

The module teaches the basics of descriptive and inferential statistics (descriptive statistics, graphs, regression and correlation analysis, probability theory, Bayesian, distributions, sampling techniques, estimation principles, confidence intervals, theory of null hypothesis testing, parametric and non-parametric methods for uni- and bivariate records, contingency table analysis, analysis of variance). The principles of statistical analysis of data will be discussed in a lesson on the basis of examples. The practical application of the methods is trained in tutorials with the help of calculating exercises.

Intended learning outcomes

The module teaches the basics of descriptive and inferential statistics (descriptive statistics, graphs, regression and correlation analysis, probability theory, Bayesian, distributions, sampling techniques, estimation principles, confidence intervals, theory of null hypothesis testing, parametric and nonparametric methods for uni- and bivariate records, contingency table analysis, analysis of variance). The principles of the statistical analysis of data will be discussed in a lesson with examples. The practical application of the method is trained in tutorials by calculating exercises.

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

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- o6-PSY-STAT-1-092: S + Ü (no information on SWS (weekly contact hours) and course language available)
- o6-PSY-STAT-2-092: S + 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)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component o6-PSY-STAT-1-092: Statistics 1 Statistics 1

- 6 ECTS, Method of grading: numerical grade
- written examination (approx. 120 minutes)

Assessment in module component o6-PSY-STAT-2-092: Statistics 2 Statistics 2

- 6 ECTS, Method of grading: numerical grade
- written examination (annrox 120 minutes)

| written examination (approx. 120 minutes) |
|---|
| 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) Psychology (2009)

Bachelor' degree (1 major) Psychology (2010)



| Module title | | | | | Abbreviation |
|---|-------|---------------------|--------------------------------------|-------------------------------|-----------------|
| Software Technology | | | | | 10-I-ST-102-m01 |
| Module coordinator | | | | Module offered by | |
| Dean of Studies Informatik (Computer Scient | | | Science) | Institute of Computer Science | |
| ECTS | Metho | od of grading | Only after succ. compl. of module(s) | | |
| 10 | nume | rical grade | | | |
| Duration Module level | | Other prerequisites | | | |
| 1 semester undergraduate Admission prerequisite to assessment: exercises (type and sco announced by the lecturer at the beginning of the course). | | | | | |

Contents

Object-oriented software development with UML, development of graphical user interfaces, foundations of databases and object-relational mapping, foundations of web programming (HTML, XML), software development processes, unified process, agile software development, project management, quality assurance.

Intended learning outcomes

The students possess a fundamental theoretical and practical knowledge on the design and development of software systems.

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. b) Datenbanksysteme und Softwaretechnologie

§ 69 (1) 1. b) Datenbanksysteme und Softwaretechnologie

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) Business Information Systems (2013)

Bachelor' degree (1 major) Human-Computer Systems (2010)

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)
First state examination for the teaching degree Realschule Computer Science (2012)
First state examination for the teaching degree Gymnasium Computer Science (2009)



| Modul | Module title Abbreviation | | | | | |
|---|--|-----------------------------|-----------------------------|---|--|--|
| Introd | uctory Programming Course | 10-I-EPP-101-m01 | | | | |
| Modul | e coordinator | | Module offered by | , | | |
| Dean of Studies Informatik (Computer Science) | | | Institute of Comput | er Science | | |
| ECTS | Method of grading | Only after succ. con | npl. of module(s) | | | |
| 10 | (not) successfully completed | | | | | |
| Duratio | on Module level | Other prerequisites | i | | | |
| 1 seme | ester undergraduate | | | | | |
| Contents | | | | | | |
| | ogramming language used is Ja nented independently. | va. In the practical co | urse, small to middle | e-sized java programs are to be | | |
| Intend | ed learning outcomes | | | | | |
| The stu | udents are able to independent | y develop and impler | nent small to middle | sized Java programs. | | |
| Course | (type, number of weekly contact hours, | language — if other than Ge | rman) | | | |
| P (no i | nformation on SWS (weekly con | tact hours) and cours | e language available | e) | | |
| | d of assessment (type, scope, langu s creditable for bonus) | age — if other than German, | examination offered — if no | ot every semester, information on whether | | |
| gramm | pletion of programming exercis ling exercises and oral examina of 3: 40 minutes) | | | | | |
| Allocat | tion of places | | | | | |
| | | | | | | |
| Additio | onal information | | | | | |
| | | | | | | |
| Worklo | pad | | | | | |
| | | | | | | |
| Teaching cycle | | | | | | |
| | | | | | | |
| Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | |
| | | | | | | |
| Modul | Module appears in | | | | | |
| | lor' degree (1 major) Business Ir | nformation Systems (2 | 2013) | | | |
| Bachel | Bachelor' degree (1 major) Human-Computer Systems (2010) | | | | | |



| Modul | Module title Abbreviation | | | | | |
|---|---|---|--|-------------------------------------|---|--|
| Selecto | ed Area | s of Psychology | | | o6-MCS-SGP-101-m01 | |
| Modul | e coord | inator | | Module offered by | L | |
| holder | holder of the Chair of Psychological Ergonomics | | | Institute of Human | Computer Media | |
| ECTS | Metho | od of grading | Only after succ. con | ipl. of module(s) | | |
| 4 | nume | rical grade | | | | |
| Duratio | on | Module level | Other prerequisites | | | |
| 1 seme | ster | undergraduate | | | | |
| Conter | ıts | | | | | |
| This module will acquaint students with the fundamental principles of the following branches of psychology: emotional and motivational psychology, social psychology, personality and differential psychology as well as organisational psychology. | | | | | | |
| Intended learning outcomes | | | | | | |
| Germa | n inten | ded learning outcomes a | vailable but not trans | lated yet. | | |
| nutzun ration | gsschn mit and | ittstellen (Personalisieru eren Menschen (Comput | ng) sowie hinsichtlic er Supported Cooper | n der Unterstützung ative Work). | individuellen Anpassung von Be- von Kommunikation und Koope- | |
| | | number of weekly contact hours, l | | | 112 | |
| | | mation on SWS (weekly | | | | |
| | | Gessment (type, scope, langua le for bonus) | ge — if other than German, o | examination offered — if no | ot every semester, information on whether | |
| sentati | on (app | mination (approx. 75 min orox. 20 minutes) ssessment: German or E | | amination (approx. 6 | 60 minutes) and ungraded pre- | |
| Allocat | ion of p | olaces | | | | |
| | | | | | | |
| Additional information | | | | | | |
| | | | | | | |
| Workload | | | | | | |
| | | | | | | |
| Teachi | Teaching cycle | | | | | |
| | | | | | | |
| Referre | Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | |

Bachelor' degree (1 major) Human-Computer Systems (2010)

Module appears in



| Modul | e title | | | | Abbreviation |
|---|-------------|-----------------------------------|------------------------------|--------------------|----------------------|
| Softwa | are Dev | elopment | | | o6-MCS-SoftE-101-m01 |
| Module coordinator | | | | Module offered by | |
| unkno | wn | | | Institute of Human | Computer Media |
| ECTS | Meth | od of grading | Only after succ. con | npl. of module(s) | |
| 15 | nume | rical grade | | | |
| Duration | on | Module level | Other prerequisites | | |
| 1 seme | ester | unknown | | | |
| Conter | ıts | | | | |
| No information on contents available. | | | | | |
| Intend | ed lear | ning outcomes | | | |
| No info | ormatio | n on intended learning o | utcomes available. | | |
| Course | es (type, i | number of weekly contact hours, l | anguage — if other than Ger | rman) | |
| o6-MCS-SoftE-1-101: P (no information on SWS (weekly contact hours) and course language available) o6-MCS-SoftE-2-101: 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) Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments. Assessment in module component o6-MCS-SoftE-1-101: Programming Course Interface Development 10 ECTS, Method of grading: numerical grade presentation of project results (approx. 20 minutes) Language of assessment: German or English Assessment in module component o6-MCS-SoftE-2-101: Software Quality Software Quality 5 ECTS, Method of grading: numerical grade written examination (approx. 75 minutes) Language of assessment: German or English | | | | | |
| Alloca | tion of | places | | | |
| | | | | | |
| Additional information | | | | | |
| | | | | | |
| Workload | | | | | |
| | | | | | |
| Teaching cycle | | | | | |
| | | | | | |
| Referre | ed to in | LPO I (examination regulation | s for teaching-degree progra | mmes) | |
| | | | | | |

Bachelor' degree (1 major) Human-Computer Systems (2010)

Module appears in



| Module title | | | | | Abbreviation |
|--------------------------|---|---------------------|----------------------|-----------------------------------|--------------|
| Usabili | ity and | Software Ergonomics | | o6-MCS-Usab-101-m01 | |
| Module coordinator N | | | | Module offered by | |
| holder | holder of the Chair of Psychological Ergonomics | | | Institute of Human Computer Media | |
| ECTS | Metho | od of grading | Only after succ. con | compl. of module(s) | |
| 10 | nume | rical grade | | | |
| Duration Module level O | | Other prerequisites | | | |
| 1 semester undergraduate | | | | | |
| Conten | 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 pre-

sentation 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)



| Modul | Module title | | | | Abbreviation |
|--|--------------|--------------------|---------------------|-----------------------------------|---------------------|
| Research Methods | | | | | o6-MCS-Meth-101-mo1 |
| Module coordinator | | | | Module offered by | |
| holder of the Chair of Psychological Erg | | | Ergonomics | Institute of Human Computer Media | |
| ECTS | Meth | od of grading | Only after succ. co | ompl. of module(s) | |
| 7 | nume | rical grade | | | |
| Duration Module level | | Other prerequisite | es | | |
| 1 seme | ster | undergraduate | | | |
| Cantar | | • | | | |

Contents

This module will equip students with the fundamentals of research methods in human-computer systems, including theoretical principles, the identification of research problems, the selection of suitable measurement methods, the selection of research paradigms and data collection methods as well as the analysis and interpretation of research findings. An exercise will provide students with an opportunity to practise their skills in these areas. In addition, students will gain first-hand experience of experiments, spending 25 hours acting as a participant in experiments, as a tester or similar.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach der Teilnahme an den Modulveranstaltungen haben die Studenten Kenntnisse über die erkenntnistheoretischen Grundlagen der wissenschaftlichen Modellbildung in einer empirischen Disziplin. Die Studierenden erlangen die Fähigkeit, einem Untersuchungsgegenstand angemessene empirische Datenerhebungsmethoden auszuwählen und sie - auch in ihrer Beschränkung - korrekt zu interpretieren. Diese Kenntnisse und Fertigkeiten ermöglichen den Studierenden die methodenkritische Auseinandersetzung mit der wissenschaftlichen Fachliteratur und die Testung von wissenschaftlichen Fragestellungen bzw. die Evaluation von Mensch-Computer Systemen.

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

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- o6-MCS-Meth-1-101: V + Ü (no information on SWS (weekly contact hours) and course language available)
- o6-MCS-Meth-2-101: 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)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component o6-MCS-Meth-1-101: Research Methods Research Methods

- 6 ECTS, Method of grading: numerical grade
- a) written examination (approx. 75 minutes) or b) presentation (approx. 20 minutes) with written elaboration (approx. 10 pages) or c) written examination (approx. 60 minutes) and term paper (approx. 5 pages)
- Language of assessment: German or English

Assessment in module component o6-MCS-Meth-2-101: Experience as a tester or subject in experiments

- 1 ECTS, Method of grading: (not) successfully completed
- acting as a participant in an experiment

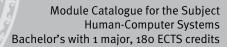
Allocation of places

--

Additional information

--

| Bachelor's with 1 major Human-Computer Systems | JMU Würzburg • generated 26-Aug-2024 • exam. reg. data re- | page 19 / 49 |
|--|--|--------------|
| (2010) | cord Bachelor (180 ECTS) Mensch-Computer-Systeme - 2010 | |





| 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) |



| Module | title | | | | Abbreviation |
|---|-------------------|--|------------------------------|-----------------------------|---|
| Interac | tive Co | mputer Graphics | | | 06-MCS-ICG-101-m01 |
| Module | coord | inator | | Module offered by | |
| unknown | | | | Institute of Human | Computer Media |
| ECTS Method of grading Only after succ. com | | npl. of module(s) | | | |
| 5 | numerical grade | | | | |
| Duration Module level Other prerequisites | | | | | |
| 1 semester unknown | | | | | |
| Contents | | | | | |
| No info | rmatio | n on contents available. | | | |
| Intende | ed lear | ning outcomes | | | |
| No info | rmatio | n on intended learning o | utcomes available. | | |
| Course | S (type, r | number of weekly contact hours, I | language — if other than Ger | rman) | |
| V + Ü (r | no info | rmation on SWS (weekly | contact hours) and co | ourse language avail | able) |
| | | sessment (type, scope, langua ole for bonus) | ge — if other than German, o | examination offered — if no | ot every semester, information on whether |
| | | nation (approx. 75 minut ssessment: German or E | | of project results (ap | oprox. 15 minutes) |
| Allocat | | | . <u> </u> | | |
| | | | | | |
| Additio | nal inf | ormation | - | | |
| | | | | | |
| Worklo | ad | | | | |
| | | | | | |
| Teachi | ng cycl | e | | | |
| | | | | | |
| Referre | d to in | LPO I (examination regulation | s for teaching-degree progra | mmes) | |
| | | | | | |
| Module | appea | ars in | | | |
| | | ree (1 major) Human-Con | nputer Systems (2010 |) | |



| Module | e title | | | | Abbreviation | |
|--|-------------------|---|------------------------------|-----------------------|---|--|
| Method | ds for l | Jser-Centered Design | | | o6-MCS-MBG-101-m01 | |
| Module | e coord | inator | | Module offered by | I. | |
| holder | of the | Chair of Psychological Erg | gonomics | Institute of Human | Computer Media | |
| ECTS | Meth | od of grading | Only after succ. con | npl. of module(s) | | |
| 10 | nume | rical grade | | | | |
| Duratio | n | Module level | Other prerequisites | | | |
| 1 semester undergraduate | | | | | | |
| Conten | ts | | | | | |
| portunity 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 develop a product concept and will carry out the initial stages of an ergonomic design process from context-of-use and requirements analysis through the development of design solutions to a tested (paper) prototype. Intended learning outcomes | | | | | | |
| | | ded learning outcomes a | vailable but not trans | lated vet. | | |
| den. Di die Fäh | e Proje igkeit | | ständige Planen, die | Kommunikation und | staltung eines Systems anwen- I Kooperation in Gruppen sowie | |
| | | rmation on SWS (weekly o | | | lable) | |
| Method | d of as | • | | | ot every semester, information on whether | |
| • | | of project results (approx essessment: German or E | • | oject report (approx. | 12 pages) | |
| Allocat | ion of | places | | | | |
| | | | | | | |
| Additio | nal inf | ormation | | | | |
| | | | | | | |
| Worklo | ad | | | | | |
| | | | | | | |
| Teachi | ng cycl | e | | | | |
| | | | | | | |
| Referre | d to in | LPO I (examination regulations | s for teaching-degree progra | mmes) | | |
| | | | | | | |

Bachelor' degree (1 major) Human-Computer Systems (2010)

Module appears in



| Module | Module title Abbreviation | | | | |
|-----------------|---|--|---|-----------------------------|--|
| Instruc | tional | Psychology for MCS | | | o6-MCS-Inst-101-m01 |
| Module | e coord | linator | | Module offered by | l. |
| holder Media | of the | Chair of Instructional Psy | chology and New | Institute of Human | Computer Media |
| ECTS | Meth | od of grading | Only after succ. con | npl. of module(s) | |
| 3 | nume | rical grade | | | |
| Duratio | Duration Module level Other prerequisites | | | | |
| 1 seme | 1 semester undergraduate | | | | |
| Contents | | | | | |
| its rela | tion to | | e gives an overview o | | s of instructional psychology and s in research about learning and |
| Intend | ed lear | ning outcomes | | | |
| also be | e usefu es (type, | l in many ways for their funumber of weekly contact hours, I | iture careers. anguage — if other than Ger | rman) | e skills acquired in this course will |
| V (no ii | nforma | tion on SWS (weekly cont | act hours) and cours | e language available | e) |
| | | sessment (type, scope, langua ble for bonus) | ge — if other than German, | examination offered — if no | ot every semester, information on whether |
| | | nation (approx. 110 minu | tac) | | |
| Allocat | - | | | | |
| Allocal | .1011 01 | piaces | | | |
| Additio | nal inf | ormation | | | |
| | ZIIGC IIII | ormation | | | |
| Worklo | ad | | | | |
| | | | | | |
| Teachi | ng cvcl | e | | | |
| | | | | | |
| Referre | ed to in | LPO I (examination regulations | s for teaching-degree progra | ımmes) | |
| | | | 2 0 1 0 | | |
| Module | e appe | ars in | | | |
| Bachel | or' deg | ree (1 major) Human-Com | nputer Systems (2010 |)) | |



| Modul | Module title Abbreviation | | | | | |
|---------------------------------------|--|---|---|-----------------------------|---|--|
| Curren | t Trend | s of Human-Computer Sy | | o6-MCS-AkTre1-101-m01 | | |
| Modul | e coord | inator | | Module offered by | | |
| unknov | wn | | | Institute of Human | Computer Media | |
| ECTS | Metho | od of grading | Only after succ. com | ıpl. of module(s) | | |
| 5 | nume | rical grade | | | | |
| Duratio | on | Module level | Other prerequisites | | | |
| 1 semester unknown | | | | | | |
| Conter | its | | | | | |
| No information on contents available. | | | | | | |
| Intended learning outcomes | | | | | | |
| No info | rmatio | n on intended learning o | utcomes available. | | | |
| Course | S (type, r | number of weekly contact hours, l | anguage — if other than Ger | man) | | |
| S (no i | nformat | ion on SWS (weekly cont | act hours) and cours | e language available | <u>e)</u> | |
| | | sessment (type, scope, langua le for bonus) | ge $-$ if other than German, ϵ | examination offered — if no | ot every semester, information on whether | |
| | | approx. 20 minutes) with ssessment: German or Er | | (approx. 12 pages) | | |
| | ion of p | | | | | |
| | | | | | | |
| Additio | nal inf | ormation | | | | |
| | | | | | | |
| Worklo | ad | | | | | |
| | - | | | | | |
| Teachi | ng cycl | e | | | | |
| | | | | | | |
| Referre | ed to in | LPO I (examination regulations | s for teaching-degree progra | mmes) | | |
| | | | | | | |
| Modul | e appea | ars in | | | | |
| | _ | ree (1 major) Human-Com | • |) | | |
| | _ | ee (1 major) Media Comm | · · | | | |
| Master | Master's degree (1 major) Media Communication (2013) | | | | | |



| Module | title | <u> </u> | | | Abbreviation |
|---|---|---|------------------------------|-----------------------------|---|
| Resear | Research Topics in Human-Computer Systems 06-MCS-Forsch-101-m01 | | | | |
| Module | coord | inator | | Module offered by | |
| unknown | | | | Institute of Human | Computer Media |
| ECTS Method of grading Only after succ. com | | npl. of module(s) | | | |
| 3 | numerical grade | | | | |
| Duration Module level Other prerequisites | | | | | |
| 1 semester unknown | | | | | |
| Contents | | | | | |
| No info | rmatio | n on contents available. | | | |
| Intende | ed lear | ning outcomes | | | |
| No info | rmatio | n on intended learning o | utcomes available. | | |
| Course | S (type, r | number of weekly contact hours, | language — if other than Ger | rman) | |
| S (no ir | nformat | tion on SWS (weekly cont | tact hours) and cours | e language available | <u>a)</u> |
| | | sessment (type, scope, langua le for bonus) | ge — if other than German, o | examination offered — if no | ot every semester, information on whether |
| | | go minutes) ssessment: German or E | nglish | | |
| Allocat | | | | | |
| | | | | | |
| Additio | nal inf | ormation | - | | |
| | | | | | |
| Worklo | ad | | | | |
| | | | | | |
| Teachi | ng cycl | e | | | |
| | | | | | |
| Referre | d to in | LPO I (examination regulation | s for teaching-degree progra | mmes) | |
| | | , | 3 - 0 | , | |
| Module | appea | ars in | | | |
| | | ree (1 major) Human-Con | nputer Systems (2010 | b) | |



Compulsory Electives

(30 ECTS credits)

One of the following modules must be taken: MCS-Projekt Psychologie (MCS Project Psychology), MCS-Projekt Informatik (MCS Project Computer Science), MCS-Projekt Interdisziplinär (MCS Project Interdisciplinary).



| Modul | Module title | | | | Abbreviation |
|--|----------------------|---------------------|---------------------|--------------------|-------------------|
| Specia | Specialization MCS 1 | | | | 06-MCS-V1-101-m01 |
| Module coordinator | | | | Module offered by | I. |
| chairperson of examination committee of the Bachelor's degree programme Mensch-Computer-Systeme (Man-Computer Systems) | | | | Institute of Human | Computer Media |
| ECTS | Metho | od of grading | Only after succ. co | mpl. of module(s) | |
| 5 | nume | rical grade | | | |
| Duration Module level Other prer | | Other prerequisites | s | | |
| 1 semester undergraduate | | | | | |
| 1 seme | | | | | |

German contents available but not translated yet.

In diesem Modul werden Inhalte des Studiums vertieft und Bezüge zu Nachbarwissenschaften hergestellt, die die bisherigen im Studium erworbenen Kompetenzen erweitern und vertiefen, z.B. Medienkommunikation, Wirtschaftsinformatik, Interaction Design, Techniksoziologie, Psychologie, Informatik, Museologie, Digital Humanities, Geographie u.a.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach der Teilnahme an diesem Module verstehen die Studierenden Problemstellungen und Methoden im eigenen Fach wie in den angrenzenden Wissenschafts- und Anwendungsgebieten. Sie entwickeln Kenntnisse, Fähigkeiten und Fertigkeiten in Bezug auf Kommunikation, Kooperation und Konfliktlösung in interdisziplinärer Zusammenarbeit.

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

S + 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)

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 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



| Module | e title | | | | Abbreviation |
|--|-----------------------|---------------|----------------------|--------------------|-------------------|
| Specialization MCS 2 | | | | | 06-MCS-V2-101-m01 |
| Module coordinator | | | | Module offered by | |
| chairperson of examination committee of the lor's degree programme Mensch-Computer-Syman-Computer Systems) | | | | Institute of Human | Computer Media |
| ECTS | Metho | od of grading | Only after succ. con | npl. of module(s) | |
| 5 | nume | rical grade | | | |
| Duratio | Duration Module level | | Other prerequisites | | |
| 1 seme | ster | undergraduate | | | |
| Conten | Contents | | | | |

German contents available but not translated yet.

In diesem Modul werden Inhalte des Studiums vertieft und Bezüge zu Nachbarwissenschaften hergestellt, die die bisherigen im Studium erworbenen Kompetenzen erweitern und vertiefen, z.B. Medienkommunikation, Wirtschaftsinformatik, Interaction Design, Techniksoziologie, Psychologie, Informatik, Museologie, Digital Humanities, Geographie u.a.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach der Teilnahme an diesem Module verstehen die Studierenden Problemstellungen und Methoden im eigenen Fach wie in den angrenzenden Wissenschafts- und Anwendungsgebieten. Sie entwickeln Kenntnisse, Fähigkeiten und Fertigkeiten in Bezug auf Kommunikation, Kooperation und Konfliktlösung in interdisziplinärer Zusammenarbeit.

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

S + 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)

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 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's with 1 major Human-Computer Systems | JMU Würzburg • generated 26-Aug-2024 • exam. reg. data re- | page 28 / 49 |
|--|--|--------------|
| (2010) | cord Bachelor (180 ECTS) Mensch-Computer-Systeme - 2010 | |



| Module title Abbreviation | | | | | | |
|---|--|---|---|--|--|--|
| Interactive Sy | /stems 1 | | | o6-MCS-IntSy1-101-mo1 | | |
| Module coord | linator | | Module offered by | | | |
| holder of the | Chair of Computer Scienc | e IX | Institute of Comput | er Science | | |
| ECTS Meth | od of grading | Only after succ. com | npl. of module(s) | | | |
| 5 nume | erical grade | | | | | |
| Duration | Module level | Other prerequisites | | | | |
| 1 semester undergraduate | | | | | | |
| Contents | | | | | | |
| which let machines or software exhibit intelligent behaviour. This course specifically concentrates on interactive methods applicable to novel human-computer interfaces and computer games. The course will cover topics about problem solving in general, search methods, semantic representation, logic and deduction methods, constraint satisfaction methods, as well as algorithmical approaches to apply these methods to interactive systems. The latter includes the identification of necessary software modules and requirements for AI-enabled systems as well as APIs for building so-called world interfaces. | | | | | | |
| Intended lear | ning outcomes | | | | | |
| used in intera | | e. They will be able to | implement a promi | theoretical models and methods nent variety of these methods, to vare tool for this task. | | |
| Courses (type, | number of weekly contact hours, I | anguage — if other than Ger | man) | | | |
| S + V + <u>Ü</u> (no | information on SWS (wee | kly contact hours) an | d course language a | vailable) | | |
| Method of as module is credital | | ge — if other than German, e | examination offered — if no | ot every semester, information on whether | | |
| sessment in t sentation of p (approx. 5 pa d) presentation pages). | he specialisations Huma project results (approx. 15 ges), c) presentation (app | n-Computer Systems: minutes), b) present prox. 20 minutes) and and written examination | a) written examinat ation (approx. 20 m presentation of pro | can be chosen from for asion (approx. 75 minutes) and preinutes) and written elaboration ject results (approx. 20 minutes), tes), or e) term paper (approx. 10 | | |
| Allocation of places | | | | | | |
| Allocation of | | | | | | |
| | Additional information | | | | | |
| | formation | | | | | |
| | formation | | | | | |
| Additional in | formation | | | | | |
| Additional int | formation | | | | | |
| Additional int | | | | | | |

Bachelor' degree (1 major) Human-Computer Systems (2010)

Module appears in



| Modul | Module title Abbreviation | | | | | |
|-------------------|---------------------------|---|---------------------------------|--|---|--|
| Interac | tive Sy | stems 2 | | | o6-MCS-IntSy2-101-m01 | |
| Modul | e coord | linator | | Module offered | by | |
| holder | of the | Chair of Computer Scie | ence IX | Institute of Com | puter Science | |
| ECTS | Meth | od of grading | Only after succ. co | mpl. of module(s) | | |
| 5 | nume | erical grade | | | | |
| Duratio | on | Module level | Other prerequisites | S | | |
| 1 seme | ester | undergraduate | | | | |
| Conter | ıts | , | , | | | |
| constra stems. | aint sat The la | tisfaction methods, as tter includes the identi | well as algorithmical a | pproaches to appl oftware modules a | ntion, logic and deduction methods y these methods to interactive sy- and requirements for AI-enabled sy- | |
| Intend | ed lear | ning outcomes | | | | |
| used ir | n intera | active Artificial Intellige | nce. They will be able t | o implement a pro | ring theoretical models and methor ominent variety of these methods, to oftware tool for this task. | |
| Course | es (type, | number of weekly contact hou | rs, language — if other than Ge | erman) | | |
| S + V + | Ü (no | information on SWS (w | eekly contact hours) a | nd course languag | e available) | |
| | | sessment (type, scope, lan ole for bonus) | guage — if other than German, | examination offered — | if not every semester, information on whether | |
| Specia | | ole for bollus) | | | | |

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 pages).

Language of assessment: German or English

| Allo | cation | ot p | laces |
|------|--------|------|-------|
| | | | |

--

Additional information

--

Workload

--

Teaching cycle

--

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

--

Module appears in



| Module | title | <u> </u> | Abbreviation | | | | | |
|--|-------------------|--|------------------------------|-----------------------------|--|--|--|--|
| Current Trends in Human-Computer Interaction | | | | | o6-MCS-TrMCI-101-m01 | | | |
| Module | coord | inator | | Module offered by | | | | |
| unknov | vn | , | | Institute of Human | Computer Media | | | |
| ECTS | Metho | od of grading | Only after succ. con | ıpl. of module(s) | | | | |
| 5 | nume | rical grade | | | | | | |
| Duratio | n | Module level | Other prerequisites | | | | | |
| 1 seme | ster | unknown | | | | | | |
| Conten | ts | | • | | | | | |
| No info | rmatio | n on contents available. | | | | | | |
| Intende | ed lear | ning outcomes | | | | | | |
| No info | rmatio | n on intended learning o | utcomes available. | | | | | |
| Course | S (type, r | number of weekly contact hours, l | anguage — if other than Ger | man) | | | | |
| S (no ir | ıformat | tion on SWS (weekly cont | act hours) and cours | e language available | e) | | | |
| | | sessment (type, scope, langua ole for bonus) | ge — if other than German, o | examination offered — if no | t every semester, information on whether | | | |
| | | go minutes) and written e ssessment: German or E | | o pages) | | | | |
| Allocat | | | | | | | | |
| | | | | | | | | |
| Additio | nal inf | ormation | | | | | | |
| | | | | | | | | |
| Worklo | ad | | | | | | | |
| | | | | | | | | |
| Teachi | ng cycl | e | | | | | | |
| | | | | | | | | |
| Referre | d to in | LPO I (examination regulation | s for teaching-degree progra | mmes) | | | | |
| | | | | | | | | |
| Module | appea | ars in | | | | | | |
| Bachel | or' deg | ree (1 major) Human-Con | nputer Systems (2010 |) | | | | |



| Modul | e title | | Abbreviation | | | |
|--------------------------|----------|------------------------|----------------------|-----------------------------------|----------------------|--|
| Access | sibility | and Universal Usabilit | у | | o6-MCS-AccUU-101-m01 | |
| Modul | e coord | inator | | Module offered by | | |
| holder | of the | Chair of Psychological | Ergonomics | Institute of Human Computer Media | | |
| ECTS | Meth | od of grading | Only after succ. cor | npl. of module(s) | | |
| 5 | nume | rical grade | | | | |
| Duratio | on | Module level | Other prerequisites | Other prerequisites | | |
| 1 semester undergraduate | | | | | | |
| Conter | nts | | | | | |

This course will be taught using a combination of lectures and seminar as well as project sessions. The course will first introduce students to the evaluation and design of accessible user interfaces (from accessibility for the handicapped through to universal usability for all users). Students will then work on selected issues in teams and will present the results of their work to the plenum where they will be discussed in detail. Each session will be supplemented with practical exercises providing students with an opportunity to develop methodological skills. During project sessions, students will engage in the evaluation of existing systems and in prototypical redesign. At the end of the project, students will deliver a presentation of the results of their work and will discuss these in plenum.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach der Teilnahme an diesem Modul beherrschen die Teilnehmer spezielle Kenntnisse und Methoden für die Bewertung und Gestaltung von barrierefreien Benutzungsschnittstellen. Sie unterscheiden die Methoden nach Einsatzgebiet und können eine geeignete Methode für die Bewertung auswählen. Die Studierenden können Benutzungsschnittstellen bezüglich der barrierefreien evaluieren, kritisieren und verändern.

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)

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10

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's with 1 major Human-Computer Systems | JMU Würzburg • generated 26-Aug-2024 • exam. reg. data re- |
|--|--|
| (2010) | cord Bachelor (180 ECTS) Mensch-Computer-Systeme - 2010 |



| Module | e title | | | | Abbreviation | |
|---------|---|---------------|----------------------|-----------------------------------|----------------------|--|
| Specia | lisatio | n Usability | | | o6-MCS-VUsab-101-m01 | |
| Modul | e coord | inator | | Module offered by | | |
| holder | holder of the Chair of Psychological Ergonomics | | | Institute of Human Computer Media | | |
| ECTS | Meth | od of grading | Only after succ. cor | npl. of module(s) | | |
| 5 | nume | rical grade | | | | |
| Duratio | on | Module level | Other prerequisites | Other prerequisites | | |
| 1 seme | 1 semester undergraduate | | | | | |
| Conter | Contents | | | | | |

German contents available but not translated yet.

In diesem Modul werden vertieft Inhalte, Methoden und Anwendungen der Usability Forschung gelehrt, also der Gestaltung von Mensch-Computer-Systemen entlang der Kriterien Effektivität, Effizienz und Zufriedenstellung. Anwendungsbeispiele kommen dabei aus der industriellen Anwendung, dem Fahrzeug- und Bürobereich, aber auch aus dem öffentlichen und privaten Raum.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach der Teilnahme an diesem Modul verstehen die Studierenden die Prinzipien ausgewählter Usability Methoden und Domänen und sind in der Lage selbst Benutzungsschnittstellen zu gestalten sowie Studien durchzuführen, um Fragestellungen aus dem Bereich der Mensch-System Interaktion zu untersuchen. Des weiteren können sie die Vor- und Nachteile verschiedener Methoden abschätzen und empirische Studien sowie Gestaltungslösungen beurteilen und kritisch hinterfragen.

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)

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 pages).

d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 pages). Language of assessment: German or English Allocation of places -- 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)



| Modul | e title | _ | | | Abbreviation | |
|--------------------------|--|-------------------|---------------------|-----------------------------------|----------------------|--|
| Specia | llisatio | 1 User Experience | | | o6-MCS-VUsEx-101-m01 | |
| Modul | e coord | inator | | Module offered by | | |
| holder | holder of the Chair of Psychological Ergonomic | | | Institute of Human Computer Media | | |
| ECTS | Meth | od of grading | Only after succ. co | mpl. of module(s) | | |
| 5 | nume | rical grade | | | | |
| Duration Module level | | | Other prerequisite | Other prerequisites | | |
| 1 semester undergraduate | | | | | | |
| Conter | nts | • | • | | | |

German contents available but not translated yet.

In diesem Modul werden vertieft Inhalte, Methoden und Anwendungen der User Experience Forschung gelehrt, also der Gestaltung von Mensch-Computer-Systemen hinsichtlich eines guten Erlebens der Benutzer. Anwendungsbeispiele kommen dabei aus dem öffentlichen und privaten Raum, beinhalten z.B. Kundenzufriedenheit, Persuasive Interfaces, Ästhetische Gestaltung und Service Design.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach der Teilnahme an diesem Modul verstehen die Studierenden die Prinzipien ausgewählter User Experience Methoden und Domänen und sind in der Lage selbst Benutzungsschnittstellen zu gestalten sowie Studien durchzuführen, um entsprechende Fragestellungen aus dem Bereich der Mensch-System Interaktion zu untersuchen. Des weiteren können sie die Vor- und Nachteile verschiedener Methoden abschätzen und empirische Studien sowie Gestaltungslösungen beurteilen und kritisch hinterfragen.

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)

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 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) Media Communication (2014)

Master's degree (1 major) Media Communication (2013)



| Modul | e title | | | | Abbreviation | |
|--|---------|-----------------|---------------------|-----------------------------------|----------------------|--|
| Specia | lisatio | n Human Factors | | | o6-MCS-VHuFa-101-m01 | |
| Modul | e coord | inator | | Module offered by | | |
| holder of the Chair of Psychological Ergon | | | Ergonomics | Institute of Human Computer Media | | |
| ECTS | Meth | od of grading | Only after succ. co | mpl. of module(s) | | |
| 5 | nume | rical grade | | | | |
| Duration Module level | | | Other prerequisites | | | |
| 1 semester undergraduate | | | | | | |
| Conter | nts | • | | | | |

German contents available but not translated yet.

In diesem Modul werden verschiedene sicherheitskritische und komplexe Arbeitsbereiche behandelt in denen Human Factors eine große Rolle spielt (z.B. Luftfahrt, Krankenhaus und Personentransportation). Hierzu wird jeweils (1) ein Bereich mit seinen Besonderheiten hinsichtlich der Mensch-Maschine-Schnittstelle vorgestellt, (2) aktuelle Probleme und Forschungsthemen dieses Bereiches referiert und (3) Möglichkeiten und Grenzen diskutiert wie man mit einem Mensch-Computer Systeme Studium zu einer Problemlösung und Forschung beitragen kann. Im Rahmen des Seminars sind auch Exkursionen in oben genannten Bereiche geplant.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Dieses Modul baut auf den Grundkenntnissen im Bereich Ergonomie auf und diese Kenntnisse werden in Bezug auf sicherheitskritische und komplexe Arbeitsbereiche vertieft. Die Studierenden können durch Einblick und Kontakte in Arbeitsbereiche beurteilen wie Mensch-Maschine-Schnittstellen im Kontext gestaltet werden müssen. Des weiteren können die Studierenden diese Schnittstellen unter sicherheitskritischen Aspekten und unter Berücksichtigung von arbeitsbereichspezifischen Besonderheiten analysieren und diese Ergebnisse in Entwürfe von neuen Schnittstellen einfließen lassen. Die Exkursionen bieten einen Einblick in Felder in denen Praktika oder Projekt- und Abschlussarbeit relevant sind und ebenfalls ein potenzielles Berufsfeld darstellen.

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)

Specialisation assessment. Unless otherwise specified, the following methods can be chosen from for assessment in the specialisations Human-Computer Systems: a) written examination (approx. 75 minutes) and presentation of project results (approx. 15 minutes), b) presentation (approx. 20 minutes) and written elaboration (approx. 5 pages), c) presentation (approx. 20 minutes) and presentation of project results (approx. 20 minutes), d) presentation (approx. 20 minutes) and written examination (approx. 75 minutes), or e) term paper (approx. 10 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)

| Bache | lor's | with 1 | . major | Human-(| Computer | Systems |
|--------|-------|--------|---------|---------|----------|---------|
| (2010) | | | | | | |



Module appears in



| Modul | e title | | | Abbreviation | | |
|--|---------|---------------|------------------|---------------------|-------------------------------|--|
| Game Lab | | | | | o6-MCS-GameL-101-m01 | |
| Modul | e coord | linator | | Module offered by | | |
| holder of the Chair of Computer Science IX | | | ience IX | Institute of Com | Institute of Computer Science | |
| ECTS | Meth | od of grading | Only after succ. | compl. of module(s) | | |
| 10 | nume | rical grade | | | | |
| Duration Module level | | | Other prerequis | Other prerequisites | | |
| 1 semester undergraduate | | | | | | |
| Conter | nte | • | <u> </u> | | | |

Computer or video games have become a major aspect of modern culture and a large economic force in recent years. This course provides an introduction to the conceptual and technical approaches necessary to build computer games. The course will discuss the principles of game design, necessary tools for the design and development chain of computer games, the interactive game loop, necessary conceptual and functional aspects of game engines (I/O, graphics, physics, or artificial intelligence) and will provide an introduction to modern game architectures.

Intended learning outcomes

German intended learning outcomes available but not translated yet.

Nach Abschluss der Veranstaltung verfügen die TeilnehmerInnen über ein weitreichendes Verständnis aller Aspekte, die für das Design und die Entwicklung eines Computerspiels wichtig sind. Dies beinhaltet die grundlegende Softwarearchitektur moderner Computerspiele sowie verfügbare Werkzeuge zur Bewältigung typischer anfallender Aufgaben. Die TeilnehmerInnen werden in der Lage sein eigene Computerspiele zu entwickeln und die richtigen Werkzeuge für spezielle Anforderungen auszuwählen.

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

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- o6-MCS-GameL-1-101: V (no information on SWS (weekly contact hours) and course language available)
- o6-MCS-GameL-2-101: 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)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component o6-MCS-GameL-1-101: Creating Games

- 4 ECTS, Method of grading: numerical grade
- 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 or English

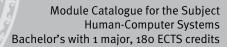
Assessment in module component o6-MCS-GameL-2-101: Developing Games

- 6 ECTS, Method of grading: numerical grade
- talk (approx. 30 minutes) and written elaboration (approx. 10 pages)

Allocation of places

Additional information

| Bachelor's with 1 major Human-Computer Systems | JMU Würzburg • generated 26-Aug-2024 • exam. reg. data re- | page 38 / 49 |
|--|--|--------------|
| (2010) | cord Bachelor (180 ECTS) Mensch-Computer-Systeme - 2010 | |





| 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) |



| Module title | | Abbreviation | | | | | | |
|---|--|--|-----------------------------|---|--|--|--|--|
| Computer Science in Media 1 06-MK-MedInf1-MCS-101-m01 | | | | | | | | |
| Module coor | dinator | | Module offered by | | | | | |
| holder of the | Professorship of Media Ir | formatics | Institute of Human | Computer Media | | | | |
| ECTS Met | nod of grading | Only after succ. con | pl. of module(s) | | | | | |
| 5 num | erical grade | | | | | | | |
| Duration | Module level | Other prerequisites | | | | | | |
| 1 semester | undergraduate | | | | | | | |
| Contents | | | | | | | | |
| formation pr dia 1) provid | ocessing in the context of es students with a fundam | digital media. The mo | odule <i>Medieninform</i> | ealing with various aspects of in- atik 1 (Computer Science for Me- v of current digital media types. | | | | |
| | rning outcomes | on contract modic inf | armatics. That have | a basis knowledge of information | | | | |
| | rith a special focus on dig | | offilatics. They have | a basic knowledge of information | | | | |
| Courses (type | number of weekly contact hours, | language — if other than Ger | man) | | | | | |
| V + T (no info | rmation on SWS (weekly o | contact hours) and co | urse language avail | able) | | | | |
| Method of as | | ge — if other than German, | examination offered — if no | ot every semester, information on whether | | | | |
| hours), weig 30 minutes) 20 pages) | hted 5:1 or c) oral examina | ition of one candidate to to 15 pages) or e) to | e each (approx. 30 m | 40 minutes) with exercises (40 ninutes) or d) presentation (15 to pages) or f) portfolio (maximum | | | | |
| Allocation of | places | | | | | | | |
| | | | | | | | | |
| Additional in | formation | | | | | | | |
| | | | | | | | | |
| 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)



| Module | Module title Abbreviation | | | | | | |
|---|---------------------------|---|--|---|--|--|--|
| MCS P | roject F | Psychology | | | o6-MCS-Proj-Psy-101-mo1 | | |
| Module | e coord | inator | | Module offered by | | | |
| • | | f examination committee | | Institute of Human | Computer Media | | |
| | 1 | me Human-Computer Inte | | | | | |
| ECTS | | od of grading | Only after succ. con | ıpl. of module(s) | | | |
| 10 | | rical grade | | | | | |
| Duratio | on | Module level | Other prerequisites | | | | |
| 1 seme | ster | undergraduate | | | | | |
| Conten | ts | | | | | | |
| This co | urse as he topi | ssigns a well-defined proj | ect or task to (teams man-Computer Intera | of) students which taction with an evenly | s well as empirical work skills. they have to solve largely on their y distributed focus on the engi- t of HCI. | | |
| Intend | ed lear | ning outcomes | | | | | |
| cal HCI | -skills. | | | | e a coherent problem using typidefine, distribute, and execute in- | | |
| Course | S (type, i | number of weekly contact hours, l | anguage — if other than Ger | man) | | | |
| R (no ir | nforma | tion on SWS (weekly cont | act hours) and cours | e language available | e) | | |
| | | sessment (type, scope, langua ble for bonus) | ge — if other than German, (| examination offered — if no | ot every semester, information on whether | | |
| | | k. 15 pages) | | | | | |
| | - | issessment: German or Ei | igusti | | | | |
| Allocat | | | | | | | |
| | | aces: 1-5 per group. | | | | | |
| | iiat iili | Ulliativii | | | | | |
| Worklo | had | | | | | | |
| WOINLOGU | | | | | | | |
| Teaching cycle | | | | | | | |
| | | | | | | | |
| Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | | |
| (examination regulations for teaching-degree programmes) | | | | | | | |
| Modul | Module appears in | | | | | | |
| modute appears in | | | | | | | |



| Module title Abbreviation | | | | | | | | |
|---------------------------|---|--|------------------------------|-----------------------------|---|--|--|--|
| MCS Pi | o6-MCS-Proj-Info-101-m01 | | | | | | | |
| Module | e coord | inator | <u> </u> | | | | | |
| unknov | vn | | | Institute of Human | Computer Media | | | |
| ECTS | Metho | od of grading | Only after succ. con | npl. of module(s) | | | | |
| 10 | nume | rical grade | | | | | | |
| Duratio | n | Module level | Other prerequisites | | | | | |
| 1 seme | ster | unknown | | | | | | |
| Conten | ts | | | | | | | |
| No info | rmatio | n on contents available. | | | | | | |
| Intende | ed lear | ning outcomes | | | | | | |
| No info | rmatio | n on intended learning o | utcomes available. | | | | | |
| Course | S (type, r | number of weekly contact hours, l | anguage — if other than Ger | rman) | | | | |
| R (no ir | nformat | tion on SWS (weekly cont | act hours) and cours | e language available | <u>e</u>) | | | |
| | | sessment (type, scope, langua ole for bonus) | ge — if other than German, o | examination offered — if no | ot every semester, information on whether | | | |
| | | k. 15 pages) ssessment: German or E | nglish | | | | | |
| Allocat | ion of p | places | | | | | | |
| Numbe | r of pla | ices: 1-5 per group. | | | | | | |
| Additio | nal inf | ormation | | | | | | |
| | | | | | | | | |
| Worklo | ad | | | | | | | |
| | | | | | | | | |
| Teachi | Teaching cycle | | | | | | | |
| | | | | | | | | |
| Referre | Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | | |
| | | | | | | | | |
| Module | Module appears in | | | | | | | |
| Bachel | Bachelor' degree (1 major) Human-Computer Systems (2010) | | | | | | | |



| Module | Module title Abbreviation | | | | | | | |
|---|---|---|--|---|--|--|--|--|
| MCS Project Interdisciplinary 06-MCS-Proj-Int-101-m01 | | | | | | | | |
| Module coordinator Module offered by | | | | | | | | |
| • | | f examination committee me Human-Computer Inte | | Institute of Human | Computer Media | | | |
| ECTS | Meth | od of grading | Only after succ. con | npl. of module(s) | | | | |
| 10 | nume | rical grade | | | | | | |
| Duratio | on | Module level | Other prerequisites | | | | | |
| 1 seme | ster | undergraduate | | | | | | |
| Conten | its | | | | | | | |
| This co | urse as he topi | ssigns a well-defined proj | ect or task to (teams man-Computer Intera | of) students which taction with an evenly | s well as empirical work skills. they have to solve largely on their y distributed focus on the engi- t of HCI. | | | |
| Intend | ed lear | ning outcomes | | | | | | |
| cal HCI dividua | -skills. al work | They will have learned ho packages. | ow to collaborate with | n colleagues and to | re a coherent problem using typidefine, distribute, and execute in- | | | |
| | | number of weekly contact hours, l | | | -) | | | |
| | | tion on SWS (weekly cont | | | | | | |
| | | Sessifient (type, scope, langua ble for bonus) | ge — If other than German, | examination offered — if no | ot every semester, information on whether | | | |
| report | (approx | k. 15 pages) | | | | | | |
| Langua | age of a | ssessment: German or E | nglish | | | | | |
| Allocat | ion of | places | | | | | | |
| | | aces: 1-5 per group. | | | | | | |
| Additio | nal inf | ormation | | | | | | |
| | | | | | | | | |
| Workload | | | | | | | | |
| | | | | | | | | |
| Teaching cycle | | | | | | | | |
| | | | | | | | | |
| Referre | Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | | |
| | | | | | | | | |
| Module appears in | | | | | | | | |



Thesis

(12 ECTS credits)



| Module title Abbreviation | | | | | | | |
|---------------------------|---|---|---|--|---|--|--|
| Bachel | or's The | esis | | | o6-MCS-Thesis-101-m01 | | |
| Module | coord | inator | | Module offered by | l. | | |
| | | examination committee ne Human-Computer Inte | | Institute of Human | Computer Media | | |
| ECTS | Metho | od of grading | Only after succ. con | npl. of module(s) | | | |
| 12 | numei | rical grade | - | | | | |
| Duratio | n | Module level | Other prerequisites | | | | |
| 1 seme | ster | undergraduate | | | | | |
| Conten | ts | | | | | | |
| | | nave to individually work document their results u | | | the field of Human-Computer In- | | |
| Intende | ed learr | ning outcomes | | | | | |
| from so and me | ientific thods t | publications and prior a | pproaches. Following nd how to implement | g this they will learn t them and potential | ion and summery of related work how to develop own concepts ly to evaluate the results. | | |
| | | ion on SWS (weekly cont | | | <u> </u> | | |
| Method | d of ass | | · | | ot every semester, information on whether | | |
| | | (approx. 30 pages) ssessment: German or Ei | nglish | | | | |
| Allocat | ion of p | laces | | | | | |
| | | | | | | | |
| Additio | nal info | ormation | | | | | |
| | | | | | | | |
| Worklo | ad | | | | | | |
| | | | | | | | |
| Teaching cycle | | | | | | | |
| | | | | | | | |
| Referre | Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | |
| | | | | | | | |
| Module | | | | | | | |
| Bachel | Bachelor' degree (1 major) Human-Computer Systems (2010) | | | | | | |



Subject-specific Key Skills

(15 ECTS credits)



| Module | e title | <u> </u> | | | Abbreviation | |
|--|----------|------------------------|----------------------|--------------------|----------------------|--|
| Exhibit | tion | | | | o6-MCS-Exhib-101-m01 | |
| Module | e coord | inator | | Module offered by | | |
| chairperson of examination committee lor's degree programme Mensch-Compuman-Computer Systems) | | | | Institute of Human | Computer Media | |
| ECTS | Meth | od of grading | Only after succ. con | npl. of module(s) | | |
| 5 | (not) | successfully completed | | | | |
| Duration Module level | | | Other prerequisites | | | |
| 1 semester undergraduate | | | | | | |
| Conten | Contents | | | | | |

Presentation and communication skills are important for application-oriented and practical aspects of various sciences. This is particularly true for human-computer interaction (HCI). This course requires participants to present the results of an associated project to a larger audience in an exhibition-like setup.

Intended learning outcomes

The participants will learn how to present their own work to a larger audience, how to plan, design and set-up the different parts of an own exhibition booth, and how to react individually to questions from the audience.

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

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- o6-MCS-Exhib-1-101: Ü (no information on SWS (weekly contact hours) and course language available)
- o6-MCS-Exhib-2-101: 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)

Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.

Assessment in module component o6-MCS-Exhib-1-101: Exhibition MCS Project

- 3 ECTS, Method of grading: (not) successfully completed
- presentation of results of project in Human-Computer Systems (approx. 20 minutes)
- Language of assessment: German or English

Assessment in module component o6-MCS-Exhib-2-101: Exhibition Bachelor's Thesis

- 2 ECTS, Method of grading: (not) successfully completed
- presentation of results of Bachelor's thesis (approx. 15 minutes)

Language of assessment: German or English Allocation of places - Additional information - Workload - Teaching cycle - Referred to in LPO 1 (examination regulations for teaching-degree programmes) - Module appears in





| Module | Module title Abbreviation | | | | | | | |
|--|---|----------------------------|---|----------------------|--|--|--|--|
| Interns | hip | | | | o6-MCS-BPrakt-101-m01 | | | |
| Module | e coord | inator | | Module offered by | | | | |
| chairperson of examination committee of the Bachelor's degree programme Mensch-Computer-Systeme (Human-Computer Systems) | | | | Institute of Human | Computer Media | | | |
| ECTS | Metho | od of grading | Only after succ. con | ıpl. of module(s) | | | | |
| 10 | (not) s | successfully completed | | | | | | |
| Duratio | on | Module level | Other prerequisites | | | | | |
| 1 seme | ster | undergraduate | | | | | | |
| Conten | its | | | | | | | |
| Practica | al tasks | s will acquaint students v | vith typical methods | of needs analysis, p | rototyping and evaluation. | | | |
| Intende | ed learı | ning outcomes | | | | | | |
| Germai | n intend | ded learning outcomes a | vailable but not trans | lated yet. | | | | |
| P (no ir Methodo module is placem | nformat d of ass creditab | le for bonus) | act hours) and cours ge — if other than German, o eport on practical trai | e language available | e) In the every semester, information on whether Courtical course / project report / re- | | | |
| Allocat | | | , ==, | | | | | |
| | • | | | | | | | |
| Additio | nal inf | ormation | | | | | | |
| | _ | | | | | | | |
| Worklo | ad | | | | | | | |
| | | | | | | | | |
| Teaching cycle | | | | | | | | |
| | | | | | | | | |
| Referre | Referred to in LPO I (examination regulations for teaching-degree programmes) | | | | | | | |
| | | | | | | | | |
| Module | Module appears in | | | | | | | |
| Bachel | Bachelor' degree (1 major) Human-Computer Systems (2010) | | | | | | | |