

Examination Office
Faculty of Digital and Analytical Sciences



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Matriculation number

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Study ID/Study code (already filled in)

List of finished courses for Masters degree programme

Computer Science Curriculum 2023

To the Examination Office

Last name, academic degree

First name

Address

Date of birth:

Citizenship

Telephone

E-Mail

Please attach all notifications of the university's legal department (if any)

Recognition(s) yes
 no

Date

Signature

Curriculum § 5 1) Compulsory modules according to §5	39 ECTS-Cr.	Grade	Date
(1) Module P1: Advanced Formal Techniques (Theory in Depth) courses in the range of 10 to 18 ECTS points must be chosen	10-18 cr.		
VO Advanced Mathematics for Computer Science	3		
PS Advanced Mathematics for Computer Science	4		
VO Theoretical Computer Science	3		
PS Theoretical Computer Science	4		
VO Advanced Algorithms and Data Structures	3		
PS Advanced Algorithms and Data Structures	4		
Last exam*:	Grade point average*:		
(2) Module P2: Software in Depth courses in the range of 8 to 13 ECTS points must be chosen	8-13 cr.		
VO Advanced Data Bases	2		
PS Advanced Data Bases	2		
VO Software Techniques	2		
PS Software Techniques	2		
SE Seminar in Computer Science	5		
Last exam*:	Grade point average*:		
(3) Software Systems courses in the range of 12 to 16 ECTS points must be chosen	12-16 cr.		
UV Enterprise Computing	4		
VO Distributed Systems	2		
PS Distributed Systems	2		
VO IT-Security	2		
PS IT-Security	2		
UV Advanced Systems Engineering	4		
Last exam*:	Grade point average*:		

2) Elective modules according to § 6 Selection of elective modules of 40 ECTS points according to § 6	40 ECTS-Cr.	Grade	Date
Module EM1: Advanced Software Engineering	10 cr.		
Model-based Software Design (UV)	5		
Selected Topics in Software Engineering	5		
Last exam*:	Grade point average*:		
Module EM 2: Bioinformatics Bioinformatics – compulsory	9 – 12 cr.		
Genetik (VO)	3		
Allgemeine Biologie (VO)	1,5		
Last exam*:	Grade point average*:		

Module EM 2: Bioinformatics Bioinformatics – compulsory	9 – 12 cr.		
Bioinformatik (VO)	3		
Bioinformatik II (UE)	2		
Digitalisierung (VO)	1,5		
Biomedical Data – from molecules to diseases (VO)	1,5		
Hand-on biomedical data (UE)	4,5		
Big data management (VO)	1,5		
Last exam*:	Grade point average*:		
Module EM 3: Concurrency and Verification	10 cr.		
Concurrency Theory and Practice (VO)	2,5		
Concurrency Theory and Practice (PS)	2,5		
Computer Aided Verification (VO)	2,5		
Computer Aided Verification (PS)	2,5		
Coalgebra (VU)	5		
Last exam*:	Grade point average*:		
Module EM 4: Data Analysis	10 cr.		
Pattern Recognition 1 (UV)	2,5		
Pattern Recognition 2 (UV)	2,5		
Statistical Learning Theory (VO)	2,5		
Statistical Learning Theory (PS)	2,5		
Last exam*:	Grade point average*:		
Module EM 5: Data Management	10 cr.		
Similarity Search in Large Databases (UV)	5		
Parallel and Distributed Management (UV)	5		
Last exam*:	Grade point average*:		
Module EM 6: Geographic Information Systems and Sciences	10 cr.		
ESRI Academy	1		
Location Based Services and Systems	6		
Design of Geospatial Data Models	3		
Last exam*:	Grade point average*:		
Module EM 7: Geometric Computing	10 cr.		
Computational Geometry (VO)	2,5		
Computational Geometry (PS)	2,5		
Geometric Modeling (VO)	2,5		
Geometric Modeling (PS)	2,5		
Last exam*:	Grade point average*:		

Module EM 8: Human-Computer Interaction	10 cr.		
HCI Theory & Paradigms	2		
Foundations of HCI Methodologies	4		
Human Factors & Design Principles	2		
Experience Engineering Methods	4		
Interaction Design	3		
Contextual Analysis & Context Capturing	3		
Contextual Interaction Design	3		
Additional options identified by CK			
Last exam*:	Grade point average*:		
Module EM 9: Image Processing	10 cr.		
Imaging beyond Consumer Cameras (VO)	2,5		
Imaging beyond Consumer Cameras (PS)	2,5		
Medical Imaging (VO)	2,5		
Medical Imaging (PS)	2,5		
Last exam*:	Grade point average*:		
Module EM 10: Information Law	10 cr.		
IT-Recht and Legal Tech (SE)	5		
Computer- und Online Strafrecht (UV)	2		
Privates Informatikrecht (VO)	3		
Datenschutz und E-Government (VU)	3		
Datenbankrechte (UV)	4		
Last exam*:	Grade point average*:		
Module EM 11: Multimedia and Security	10 cr.		
Multimedia Security (VO)	2,5		
Multimedia Security (PS)	2,5		
Biometric Systems (VO)	2,5		
Biometric Systems (PS)	2,5		
Last exam*:	Grade point average*:		
Module EM 12: Multimedia in Practice	10 cr.		
Webprogrammierung (UV)	3		
Web Projekt (UV)	3		
Studienergänzung "Digitale Medien"			
Last exam*:	Grade point average*:		
Module EM 13: Multimedia Technologies	10 cr.		
Audio Processing (VO)	2,5		
Audio Processing (PS)	2,5		
Computer Vision (VO)	2,5		
Computer Vision (PS)	2,5		

* filled out by the examination office

**Commissioned Master's Exam
according to the curriculum of the master's
programme Computer Science**

Announcement of the examination date and examination committee

**This form must be submitted to the examination office at least 2 weeks before the
planned examination date!**

Name: _____

Matriculation number: _____

Address: _____

Telephone.: _____ E-Mail: _____

Date of examination: _____ Time of examination: _____

Place of examination: _____

Subject A: Presentation of master's thesis

Subject B: _____

Subject C: _____

Examination Committee:

Approved by dean after suggestion by examination candidate

Chairperson: _____ Signature _____

Examiner: _____ Signature _____
Subject A

Examiner: _____ Signature _____
Subject B

Examiner: _____ Signature _____
Subject C Signature _____

Date _____ Signature examination candidate _____

**Appeals against the above-mentioned
date/against the examination committee:**

(Please mark with a cross)

no

yes – Reason: _____

Date _____

Dean
For the Vizerektor*in für Lehre und Studium