

Examinations offered

Module	Examination	Selma Number	Examiner/s	Type of exam	Exam date	Time	Room	Remark
CLS-ELV; CMA-ELV2; CMA-ELV1	Active Matter Hydrodynamics	K3201-P1oL7bV	Prof. Dr. Stephan Grill Prof. Frank Jülicher	Oral Assessment (30 min)	By arrangement with the examiner			
CE-EL2; CE-EL1; EE- EL1; EE-EL2; COR- FAI; CLS-ELV; CLS- ELG; VC-ELG; VC- ELV1; VC-ELV2	Advanced Problem Solving and Search / Modul: Foundations of Artificial Intelligence	K1107-MA0056V / M1101-CMS117	Dr. Sarah Alice Gaggl Dr. Hannes Straß	Written Examination (90 min) / Oral Assessment (30 min) < 10 Participants	tbd			
EE-EL1; EE-EL2	Applied Power System Economics	K1001-14M607S	Prof. Dominik Möst	1. Seminar Paper 2. Presentation	By arrangement with the examiner			
CE-EL1; CE-EL2; CLS- ELG; CLS-ELV	Atomistic Simulation Methods	K1107-MA0067V	Prof. Thomas Kühne	Written exam (90 min)/Oral assessment (30 min)	tbd			
VC-ELV2	Automotive Software Safety	K1104-MA0056V	Prof. Mirko Conrad Prof. Uwe Aßmann	Written Examination (60 min) /Oral Assessment (15 min) < 10 Participants	tbd			
COR-NUM; CLS-ELG	Basic Numerical Methods/Modul: Basic Numerical Methods	K1107-MA0017V / M1107-CMS13	Dr. Nandu Gopan Prof. Ivo Sbalzarini	Written Examination (90 min) / Oral Assessment (30 min) < 10 Participants	tbd			
CE-EL1; CE-EL12; CLS-ELV; CLS-ELG	Behind the Secrets of Large Language Models	DK1100-MA024X	Prof. Dr. Michael Färber Prof. Simon Razniewski	Project Work (40 hrs)	By arrangement with the examiner			
CLS-ELG; CMA-ELG	Biophysical Methods	K3012-5MB15aV	Prof. Michael Schlierf	Oral Presentation	By arrangement with the examiner			
CLS-ELV, CMA-ELV, VC-ELV1	Causal inference for time series data	DK1100-MA014X	Prof. Jakob Runge	Written Examination (90 min)	tbd			
CE-EL1; CE-EL2	Closed-loop Control in Networked Control Systems	K1108-MA0004V	Dr. Burkhard Hensel Prof. Christoph Sommer	Written examination (90 min)/Oral Assessment (25 min) < 32 participants	tbd			
CLS-ELV	Cognitive Neuroscience (CAN1)	K0405-41CAN5V	Prof. Thomas Goschke Prof. Hannes Ruge	Written Examination	tbd			
CLS-ELG	Cognitive Neuroscience Methods (CAN5)	K0405-41CAN5V	Prof. Stefan Kiebel Dr. Sarah Schwöbel	Written Examination / Oral Assessment	tbd			
LM-ADV; LM-MOC	Complexity Theory	K1101-MA0022V	Prof. Markus Kröttsch Dr. Stephan Mennicke	Oral Assessment (30 min)	By arrangement with the examiner			
CLS-ELV; CMA-ELV2; CMA-ELV1; VC-ELG	Computational Cell Biology	K9603-11073V	Prof. Ingmar Glauche	Oral Assessment (30 min)	By arrangement with the examiner			
CE-CFD; EE-EL2; CLS- ELV; CLS-ELG; CMA- ELV2; CMA-ELV1; VC-ELV2	Computational Fluid Dynamics	K1302-EX3040V	Prof. Jochen Fröhlich Dr. Jörg Stiller	Written examination (120 min)/Oral Assessment (20 min) < 10 Tn	tbd			
CMA-PROJ	Computational Mathematics Project	M1100-CMS341	Prof. Axel Voigt	Oral Presentation (20 min)	By arrangement with the examiner			
CLS-ELV; VC-ELG; VC-ELV1; VC-ELV2	Computer- und robotergestützte Chirurgie	K9601-110713V	Prof. Stefanie Speidel	Oral Assessment (30 min)	By arrangement with the examiner			
CE-EL2; CE-EL1; CLS- ELG; VC-ELG; VC- ELV1; VC-ELV2	Computer Vision 1	K1107-MA0009V	Prof. Björn Andres	Oral Assessment (15 min)	By arrangement with the examiner			

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CE-EL2; CE-EL1; VC-ELG; VC-ELV1; VC-ELV2	Computergraphik 1	K1104-MA0025V	Prof. Stefan Gumhold Prof. Raimund Dachselt	Written Examination (90 min)	tbd			
CLS-ELV; VC-ELV1; VC-ELV2	Computergraphik 3	K1104-MA0045V	Prof. Stefan Gumhold Prof. Björn Andres	Oral Assessment (20 min)	By arrangement with the examiner			
CLS-ELV; CLS-ELG; CMA-ELG	Concepts of Molecular Modelling	K1314-EX3006V	Dr. Rafael Gutierrez Prof. Gianarelio Cuniberti	Written Examination (90 min)	11.02.2025			
CE-EL2; CE-EL1; EE-EL1; COR-VIZ; CLS-ELV; CLS-ELG; VC-ELG	Data Visualization/Modul: Data Visualization	K1104-CMS03V / M1104-CMS15	Prof. Raimund Dachselt Prof. Stefan Gumhold	Written Examination (90 min)	tbd			
CMS-SEM (Area B)	Deep Learning for image analysis	K1107-MA0068S	Prof. Martin Weigert	Seminar Paper incl. Presentation	By arrangement with the examiner			
CE-EL2; CE-EL1; EE-EL1; EE-EL2; COR-SSE; CLS-ELV; CLS-ELG; VC-ELG; VC-ELV1; VC-ELV2	Design Patterns and Frameworks / Modul: Scientific Software Engineering	K1104-MA0020V / M1104-CMS120	Dr. Sebastian Götz Prof. Uwe Aßmann	Oral Assessment (15 min)	By arrangement with the examiner			
CE-EL1; CLS-ELG; CMA-ELG	Einführung in die rechnergestützte Aerodynamik (Introduction to Computational Aerodynamics)	K1107-MA0029V	Prof. Sabine Roller Dr. Immo Huismann	Oral Assessment (20 min)	By arrangement with the examiner			
CE-EL2; CE-EL1	Electromechanical Networks	K1212-500060V	Prof. Uwe Marschner Prof. Andreas Richter	Written Examination (120 min)	03.03.2025			
EE-EPM	Elektrizitätswirtschaft / Electric Power Markets	M1100-CMS50	Prof. Dominik Möst Prof. Remmer Sassen	Written Examination (90 min)	tbd			
CMA-FEM, CE-FEM	Finite-Elemente-Methode – Theorie, Implementierung und Anwendungen/ Modul: Engineering Finite Element Methods	M1100-CMS60	Prof. Axel Voigt Dr. Simon Praetorius	Written examination (120 min)/Oral Assessment (20 min) < 10 Participants; Exam prerequisite: Exercise	tbd			
CE-EL2; CE-EL1	Flow simulation on high-performance computers /Strömungssimulation auf Höchstleistungsrechnern	K1302-1H1385V	Prof. Jochen Fröhlich Dr. Jörg Stiller	Same exam as "Higher computational fluid mechanics"	17.02.2025			
CMS-SEM	Forschungsseminar Kombinatorische Bildanalyse	K1107-MA0008S	Prof. Björn Andres	Seminar Paper incl. Presentation	By arrangement with the examiner			
CMS-SEM	Forschungsseminar Roboter Lernen	K1107-MA0065S	Prof. Roberto Calandra	1. Seminar Paper 2. Oral Presentation	By arrangement with the examiner			
LM-BAS, LM-MOC	Foundations of Certified Programming Languages and Compiler Design	K1102-MA0040V	Prof. Jerónimo Castrillón Mazo Dr. Sebastian Ertel	Oral Assessment (30 min)	By arrangement with the examiner			
LM-BAS	Foundations of Knowledge Representation	K1107-MA0057V	Prof. Sebastian Rudolph	Oral Assessment (30 min)	By arrangement with the examiner			
VC-ELV1; VC-ELV2	Foundations of Virtual Reality	K1104-MA0036V	Jr. Prof. Matthew McGinity Dr. Ingmar Franke	Written examination (120 min)/Oral Assessment (25 min) < 15 Participants	tbd			

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CE-EL2; CE-EL1	Gekoppelte Simulation/Echtzeitsimulation	K1301-EX0190V	Prof. Michael Beiteltschmidt Dr. Zhirong Wang	Written Examination (90 min)	21.02.2025			
EE-EL1; EE-EL2; COR-HPC; CLS-ELV; VC-ELG; VC-ELV1; VC-ELV2	High Performance Computing - Hochleistungsrechner und ihre Programmierung / Modul: Parallel Programming and High-Performance Computing	K1102-MA0002V / M1102-CMS12	Prof. Wolfgang Nagel Dr. Robert Schöne	Written Examination (90 min)	tbd			
CE-EL2; CE-EL1	Higher computational fluid mechanics / Höhere numerische Strömungsmechanik	K1302-1H1385V	Dr. Jörg Stiller Prof. Jochen Fröhlich	Project Work + Written Examination (90 min)	By arrangement with the examiner + 17.02.2025			
VC-ELV1; VC-ELV2	Highly Parallel Programming of GPUs	K1102-MA0005V	Prof. Wolfgang Nagel Dr. Robert Schöne	Written Examination (90 min)	tbd			
CLS-ELV; VC-ELG; VC-ELV1; VC-ELV2	Interactive Multimedia Information Retrieval (IMIR) - VL+Ü (2/2 SWS)	K1104-MA0034V	Dr. Annett Mitschick Prof. Raimund Dachselt	Written Examination (90 min)	tbd			
VC-ELV2; CLS-ELG; CLS-ELV; CMA-ELG; CMA-ELV1 ; CMA-ELV2	Introduction to Mathematical Biology I: Discrete Models	K1102-ZIH001V	Dr. Lutz Bruschi Prof. Andreas Deutsch	Oral Assessment (30 min)	By arrangement with the examiner			
CLS-ELG	Introduction to Proteomics	K3202-5MB12V	Prof. Simon Alberti Prof. Michael Schroeder	Written Examination/Oral Assessment <= 15 Participants	tbd			
COR-KM	Knowledge Graphs / Modul: Knowledge Models	K1101-MA0024V / M1101-CMS118	Prof. Markus Krötzsch Prof. Sebastian Rudolph	Written Examination (90 min) /Oral Assessment (30 min) < 10 Participants	tbd			
VC-ELV1; VC-ELV2	Practical Course Applied Immersive Media	K1104-MA0021P	Jr. Prof. Matthew McGinity	Project Work incl. Presentation	By arrangement with the examiner			
VC-ELV1; VC-ELV2	Practical Course Creative Immersive Media	K1104-MA0037P	Jr. Prof. Matthew McGinity	Project Work incl. Presentation	By arrangement with the examiner			
LM-AI	Advanced Research Project Robot Learning	K1107-MA0064P	Prof. Roberto Calandra	1. Written project report 80% 2. Oral presentation 20%	By arrangement with the examiner			
LM-ADV; LM-MOC	Lab Course Modeling and Automated Verification	K1101-MA0020Ü	Prof. Christel Baier Dr. Sascha Klüppelholz	Project Work incl. Presentation	By arrangement with the examiner			
CLS-ELV	Lifespan Developmental Neuroscience (CAN3)	K0403-41CAN3V	Prof. Shu-Chen Li Dr. Heidrun Schultz	Written Examination (90 min)	tbd			
EE-LSEE	Literaturanalyse zu aktuellen Fragestellungen der Energiewirtschaft / Literature Studies in Energy Economics	M1100-CMS54	Prof. Dominik Möst	1. Seminar paper 2. ungraded Oral Presentation	By arrangement with the examiner			
LM-ADV, LM-AI	Logic Based Ontology Engineering	K1101-MA0018V	Dr. Stefan Borgwardt	Oral Assessment (20 min)	By arrangement with the examiner			
CE-EL2; CE-EL1; COR-MLD; CLS-ELV; CLS-ELG	Machine Learning 1 / Modul: Machine Learning and Data Mining	K1107-MA0060V / M1107-CMS11	Prof. Björn Andres Prof. Michael Schroeder	Written Examination (90 min)	tbd			
CE-EL2; CE-EL1	Mehrkörpersysteme – Praktikum	K1301-1H1625P	Prof. Michael Beiteltschmidt Dr. Volker Quarz	Ungraded Project Work	By arrangement with the examiner			

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LM-BAS	Modal Logic	K1101-MA0046V	Dr. Oliver Fernández Gil Prof. Christine Baier	Oral Assessment (25 min)	By arrangement with the examiner			
LM-ADV; LM-MOC	Model Checking	K1101-MA0019V	Prof. Christel Baier Dr. Sascha Klüppelholz	Oral Assessment (30 min)	By arrangement with the examiner			
CLS-IBC	Molecular Biology and Biochemistry of Life/ Modul: Introduction to Biochemistry	M1100-CMS221	Prof. Simon Alberti	1. Laboratory Protocol 2. Test (45 min)/Oral Assessment <=15 Participants	By arrangement with the examiner / tbd			
CMA-ELV2; CMA-ELV1	Molecular Electronics	K1314-EX0201V	Prof. Gianarelio Cuniberti	Written Examination (90 min) /Oral Assessment (20 min) <= 10 Participants	26.02.2025			
EE-EL1; EE-EL2; CLS-ELV; CLS-ELG; CMA	Numerical methods for partial differential equations – Basic concepts	K0108-M1x28xV	Prof. Oliver Sander	Oral Assessment (20 min) - Group examination	By arrangement with the examiner			
CE-EL1	Numerische Mathematik	K1202-100030V	Dr. Ralf Theo Jacobs Prof. Hans Georg Krauthäuser	Written Examination (120 min)	07.03.2025			
CE-EL2; CE-EL1	Performance Analysis of Computing Systems	K1102-MA0007V	Prof. Wolfgang Nagel Dr. Holger Brunst	Oral Assessment (25 min)	By arrangement with the examiner			
CMS-SKL	Philosophy of Science and good Scientific Practice / Modul: Soft Skills	M1107-CMS04	Dr. Nandu Gopan Prof. Ivo Sbalzarini	Presentation (15 min)	By arrangement with the examiner			
CLS-ELG	Physical Chemistry of Biomolecules	K3201-P1oL2bV	Prof. Elisabeth Fischer-Friedrich Prof. Benjamin Friedrich	Written Examination (90 min)	tbd			
CLS-ELV; CLS-ELG; CMA-ELG	Principles of Biophysics	K3012-5MB15bV	Prof. Alf Honigmann Prof. Michael Schlierf	Written Examination (90 min)	tbd			
LM-AI	Research Project Robot Learning	K1107-MA0063X	Prof. Roberto Calandra	1. Written project report 80% 2. Oral presentation 20%	By arrangement with the examiner			
CE-EL2; CE-EL1; EE-EL1; EE-EL2; COR-DBM; CLS-ELG; CMA-ELV1; CMA-ELG; LM-AI; VC-ELV1; VC-ELV2	Scalable Data Engineering / Modul: Database Management	K1106-MA0023V / M1106-CMS119	Prof. Wolfgang Lehner Dr. Claudio Hartmann	Written Examination (90 min)	tbd			
EE-EL1; EE-EL2; CMA-ELV2; CMA-ELV1; CMA-ELG; VC-ELG	Scientific Programming - Fortgeschrittene Aspekte	K0108-M0x33xV	Prof. Wolfgang Walter Dr. Simon Praetorius	Written Examination (90 min)/Oral Assessment (25 min) <= 20 Participants	tbd			
CMS-SEM	Seminar Conversational Artificial Intelligence	K1107-MA0024S	Prof. Jens Lehmann	Presentation (30 min)	By arrangement with the examiner			
CMS-SEM	Hauptseminar Research Frontiers in Computing	K1104-MA0072S	Jr. Prof. Matthew McGinity	Seminar Paper incl. Presentation (15 min)	By arrangement with the examiner			
CMS-SEM; LM-ADV; LM-MOC	Seminar Selected Topics in Logic and Verification	K1101-MA0021S	Prof. Christel Baier Dr. Sascha Klüppelholz,	Seminar Paper incl. Presentation	By arrangement with the examiner			
LM-ADV; LM-AI	Seminar Theoretical Computer Science	K1101-MA0013S	Prof. Franz Baader Dr. Francesco Kriegel	Seminar Paper incl. Presentation (30 min)	By arrangement with the examiner			

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COR-SED	Statistical Principles and Experimental Design / Modul: Statistical Principles and Experimental Design	M1100-CMS116	Prof. Ingo Röder Prof. Ingmar Glauche	Exam prerequisite: Testate Written examination (90 min)/Oral Assessment (30 min) < 10 Participants	tbd			
COR-SAP; CLS-ELV; CLS-ELG	Stochastic Modeling and Simulation / Modul: Stochastics and Probability	K1107-MA0002V M1107-CMS14	Dr. Nandu Gopan Prof. Ivo Sbalzarini	Written Examination (90 min)/Oral Assessment (30 min) < 10 Participants	tbd			
CE-EL2; CE-EL1	Systemdynamik / System Dynamics	K1301-1H0500V	Prof. Michael Beitelschmidt Dr. Zhirong Wang	Written Examination (120 min)	04.03.2025			
LM-ADV, LM-AI, LM-MOC	Term Rewriting Systems	K1101-MA0025V	Prof. Franz Baader	Oral Assessment (25 min)	By arrangement with the examiner			
VC-ELV1, VC-ELV2, LM-ADV, LM-AI	Touch Sensing and Processing	K1107-MA0066V	Prof. Roberto Calandra	1. Exercises 20 % 2. Oral presentation 80 %	By arrangement with the examiner			
CLS-ELV; CLS-ELG; VC-ELG ; VC-ELV1; VC-ELV2	User Interface Engineering (V+Ü)	K1104-MA0024V	Prof. Raimund Dachselt Dr. Rufat Rzayev	1. Written Examination (90 min) 2. Project Work	tbd / By arrangement with the examiner			
CLS-ELG, CLS-ELV, VC-ELV1, VC-ELV2	Advanced User Interfaces V+Ü	K1104-MA0001V	Prof. Raimund Dachselt Dr. Rufat Rzayev	Written Examination (90 min) (+ Exercise)	tbd			
CLS-ABI; VC-ELV2	Applied Bioinformatics / Modul: Applied Bioinformatics	K3202-5MB14aV / M1100-CMS23	Prof. Michael Schroeder Prof. Ivo Sbalzarini	Test (45 min)	26.02.2025			
CLS-ELG, CLS-ELV, VC-ELV1, VC-ELV2	Interactive Information Visualization / Interaktive Informationsvisualisierung	K1104-MA0004V	Prof. Raimund Dachselt Dr. Rufat Rzayev	Written Examination (90 min) (+ Exercise)	tbd			
VC-ELG; VC-ELV1; VC-ELV2	Introduction to Research Software Engineering	K1104-BA0505V	Dr. Guido Juckeland Prof. Stefan Gumhold	Written Examination (45 min)/Oral Assessment (15 min) < 10 Participants	tbd			
CE-EL1, CE-EL2, CLS-ELG, CLS-ELV, VC-ELV1, VC-ELV2	Machine Learning for Robotics	K1107-MA0032V	Prof. Roberto Calandra Prof. Björn Andres	Written Examination (90 min)	tbd			