TUD Dresden University of Technology
Faculty of Computer Science
Faculty of Mathematics
Center for Molecular and Cellular Bioengineering (CMCB)

Second Amendment to the Examination Regulations for the consecutive Master's Degree Program Computational Modeling and Simulation

as of #date (format: Month DD, YYYY)#

On the basis of § 35 para. 1 sentence 1 of the Saxon Higher Education Act (SächsHSG) in the version published on May 31, 2023 (SächsGVBl. p. 329), TUD Dresden University of Technology issues the following Examination Regulations as statutes.

Article 1
Amendment to the Examination Regulations

The Examination Regulations for the consecutive Master's Degree Program Computational Modeling and Simulation of April 20, 2018 (Official Announcement of TU Dresden No. 09/2018 of May 5, 2018, p. 66), amended most recently by the statutes of February 12, 2020 (Official Announcements 04/2020 of March 11, 2020, p. 92) are amended as follows:

1st § 25 is amended as follows:

a) In paragraph 1, after the word “tracks”, the words “and the elective modules of the chosen track” shall be deleted.
b) Paragraph 3:
   aa) Numbers 7 and 8 shall be deleted.
   bb) Numbers 9 and 10 shall become numbers 7 and 8.
c) In paragraph 4, number 6 shall be reworded as follows:
„6. Applied Artificial Intelligence.“

2nd Attachment 1 shall be amended in accordance with the Appendix to this Amendment Statute.

Article 2
Entry into force, Publication and Interim Regulations

(1) This Amendment Statute shall enter into force on April 1, 2025 and shall be published in the official announcements of TUD Dresden University of Technology.

(2) It shall apply to all newly enrolled students in the Master's degree program in Computational Modeling and Simulation in the 2025/2026 winter semester or later.

(3) For students enrolled earlier than in the 2025/2026 winter semester, the previously valid Examination Regulations for the Master's degree program in Computational Modeling and Simulation shall continue to apply.

(4) It shall apply from the 2026/2027 winter semester for all students enrolled in the Master's degree program in Computational Modeling and Simulation.

(5) If students switch to the new regulations, primarily the module examinations already taken including the grades, and subordinately also individual examination achievements will be transferred ex officio on the basis of equivalence tables which have been determined by the Examination Committee and announced in the usual manner. With the exception of § 15 para. 5 of the examination regulations, module examinations and examined assessments not graded with at least “pass“ (4.0) or “passed“ will not be transferred. The module grade is generally not recalculated based on exclusively transferred examined assessments; exceptions are listed in the equivalence tables.

Issued on the basis of the resolution of the Faculty Board of the Faculty of Computer Science dated January 15, 2025, the Faculty of Mathematics dated January 15, 2025, and the resolution of the Scientific Council of the Center for Molecular and Cellular Bioengineering (CMCB) dated January 15, 2025, and approved by the University Executive Board on #date (format: Month DD, YYYY)#.

Dresden, #date (Format: Month DD, YYYY)#

The Rector
of TUD Dresden University of Technology

Prof. Ursula Staudinger

Attachment 1: Compulsory modules in the elective tracks

Computational Life Science	
CMS-CLS-IBC	Introduction to Biochemistry
CMS-COR-SED*	Statistical Principles and Experimental Design
CMS-CLS-ABI	Applied Bioinformatics
CMS-CLS-MOS	Modeling and Simulation in Biology
CMS-CLS-ELG	Computational Life Science Basics
CMS-CLS-TEA	Computational Life Science Team Pject
CMS-CLS-ELV	Computational Life Science Advanced
Computational Mathematics	
CMS-CMA-ELG	Computational Mathematics Basics
CMS-CMA-FEM	Finite Element Methods
CMS-CMA-MODSEM	Modeling Case Studies
CMS-CMA-PROJ	Computational Mathematics Project
CMS-CMA-ELV1	Computational Mathematics Advanced
CMS-CMA-ELV2	Computational Mathematics Applications
Visual Computing	
CMS-VC-ELG	Visual Computing Basics
CMS-VC-ELV1	Visual Computing Advanced
CMS-VC-ELV2	Visual Computing Applications
CMS-VC-TEA	Visual Computing Team Project
Computational modeling in Energy Economics	
CMS-EE-EPM	Electric Power Markets
CMS-EE-EL1	Computational modeling in Energy Economics Basics
CMS-EE-SCEE	Case Studies in Energy Economics
CMS-EE-LSEE	Literature Studies in Energy Economics
CMS-EE-REEP	Resource Economics and Environmental Policy
CMS-EE-EL2	Computational modeling in Energy Economics Advanced
Computational Engineering	
CMS-CE-FEM	Engineering Finite Element Methods
CMS-CE-EL1	Computational Engineering Basics
CMS-CE-AT	Advanced Topics in Finite Element Analysis
CMS-CE-MBD	Multibody Dynamics
CMS-CE-MP	Multifield Problems
CMS-CE-CFD	Computational Fluid Dynamics
CMS-CE-EL2	Computational Engineering Advanced
Applied Artificial Intelligence	
CMS-AAI-CV	Computer Vision
CMS-AAI-RL	Robot Learning
CMS-AAI-TSP	Touch Sensing and Processing
CMS-AAI-DCT	Digital Circuit Technology
CMS-AAI-DNNH	Deep Neural Network Hardware
CMS-AAI-AV	Advanced Applied Artificial Intelligence
CMS-AAI-AP	Applications of Applied Artificial Intelligence
CMS-AAI-TEA	Applied Artificial Intelligence Team Project

* Not available in Basic Education.