Amendment of the Examination Regulations for the consecutive Master degree programme Comuptational Modelling Simulation

1. §8 shall be amended as follows:

- a. §8 paragraph 1 sentence 1 shall be reworded as follows: "Project work shall demonstrate the ability to develop, implement, describe and evaluate concepts and solutions independently or jointly in a realistic practical environment."
- b. §8 para 1 sentence 2 shall be reworded as follows: "In this context, the student shall demonstrate the competence to define objectives for a larger task, to develop, evaluate and assess solutions and concepts according to scientific methodology, and to present the results of a project in a convincing and comprehensible manner in written form."
- c. In the first sentence of §8 para 3 sentence 1, the words "15 weeks" shall be replaced by "200 hours".
- d. In §8 para 4, the last sentence "if parts of the project work are completed orally, § 9 para 4 sentence shall apply accordingly" shall be deleted.
- 2. In §10 para 1 sentence 1, following the word "prepare", the words "and present" shall be replaced by the words "present orally and discuss technically".

3. §11 shall be amended as follows:

- a. In §11 para 1 sentence 3, the word "colloquia" shall be deleted.
- b. §11 para 2 no. 1 shall be repealed.
- c. Nos. 2, 3, 4 and 5 shall become nos. 1, 2, 3 and 4.
- d. In the new no.1, the words "and document comprehensibly" shall be inserted after the word "set out".

4. §25 shall be amended as follows:

- a. In §25 para 1, "the compulsory modules of the chosen track" shall be added to "the compulsory elective modules of the chosen track."
- b. The following nos. shall be added after §25 para 3 no. 6:
 - "7. Foundations of Artificial Intelligence
 - 8. Knowledge Models
 - 9. Database Management
 - 10. Scientific Software Engineering"
- c. Following §25 para 4 no. 5, no. 6 shall be added: "6. Logical Modelling".

Attachment 1: Compulsory Modules in the Selectable 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 Teamproject	
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 Teamproject		
Computational Modelling in Energy Economics			
CMS-EE-EPM	Electric Power Markets		
CMS-EE-EL1	Computational Modelling 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 Modelling 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		
Logical Modeling			
CMS-LM-BAS	Foundations of Logical Modeling		
CMS-LM-MOC	Models of Computation		
CMS-LM-AI	Artificial Intelligence		
Choice of one module from	Choice of one module from two:		

CMS-LM-ADV	Advanced Logical Modeling
CMS-LM-TEA	Logical Modeling Teamproject

^{*} Accordingly not selectable in the basic education