

Munich, 23. Januar 2023

### Exams at the Chair of Structural Analysis – Auxiliary Means

The following terms hold for the usage of auxiliary means during exams of the Chair of Structural Analysis:

#### Compulsory modules Civil Engineering:

- **Theory of Plates and Shells (180 min.):**

- **Part 1: Theory of Plates (90 min.):**

- non-programmable calculator, one DIN A4 sheet of handwritten notes, both sides may be covered

- **Part 2: Theory of Shells (90 min.):**

- Part I: non-programmable calculator

- Part II: non-programmable calculator, all lecture notes and complementary literature (printed or handwritten)

- **Finite Element Methods (180 min.):**

- Part I: non-programmable calculator

- Part II: non-programmable calculator, all lecture notes (printed or handwritten)

#### Compulsory modules Computational Mechanics:

- **Finite-Elemente-Methode 1 (150 min.):**

- **Part 1: Introduction to Finite Element Methods:**

- Part I: non-programmable calculator

- Part II: non-programmable calculator, all lecture notes (printed or handwritten)

- **Part 2: Modeling, Simulation and Validation:** refer to Associate Professorship of Computational Mechanics (Prof. Duddeck)

Elective modules:

- **Structural Optimization 1 (90 min.):**  
non-programmable calculator, one DIN A4 sheet of handwritten notes, both sides may be covered
- **Introduction to Finite Element Methods (90 min.):**  
Part I: non-programmable calculator  
Part II: non-programmable calculator, all lecture notes (printed or handwritten)
- **Non-linear Finite Element Methods (90 min.):**  
Part I: non-programmable calculator  
Part II: non-programmable calculator, all lecture notes (printed or handwritten)
- **Advanced Finite Element Methods:**  
study project and programming part
- **Baupraktische Untersuchungen:**  
study project and oral exam
- **Windengineering:**  
project, presentation and oral exam
- **Membrane-Workshop:**  
Project, presentation and oral exam
- **Modellbildung in der Baustatik:**  
study project and oral exam
- **Isogeometric Structural Analysis and Design (90 min.):**  
non-programmable calculator, all lecture notes (printed or handwritten)
- **Computational Design and Fabrication:**  
project, presentation and oral exam