RUHR-UNIVERSITÄT BOCHUM

FAKULTÄT FÜR
BAU- UND UMWELT-
INGENIEURWISSENSCHAFTEN

Master‘s Program
Computational Engineering

Module Handbook

Curriculum
Module description

Master Thesis

Module-No./Abbreviation	Credits	Workload	Term	Frequency	Duration
CE-M	30 CP	900 h	4th Sem.	-	1 Semester
Courses			**Contact hours**	**Self-Study**	**Group Size:**
Master's Thesis			-	-	

Prerequisites
Students can start their Master's thesis if six from seven compulsory courses have successfully been completed and a minimum of 70 credits has been collected.

Learning goals / competences:
With the completion of the Master's thesis,

- the students acquire the ability to plan, organize, develop, operate and present complex problems in Computational Engineering,
- qualifies students are qualified to work independently in the field of Computational Engineering under the supervision of an advisor,
- the associated presentation serves to promote the students' ability to deal with subject-specific problems and to present them in an appropriate and comprehensible manner,

Further, it serves to prove whether the students have acquired the profound specialised knowledge, which is required to take the step from their studies to professional life, whether they have developed the ability to deal with problems from their in-depth subject by applying scientific methods, and to apply their scientific knowledge.

Content
The Master's thesis can either be theoretically-, practically-, constructively- or organisationally-oriented. Its topic is determined by the respective supervisor. The results should both be visualised and illustrated in writing in a detailed manner. This particularly includes a summary, an outline and a list of the references used within a specific thesis and obligatorily, an oral presentation.

Teaching Methods / Language of Report
Independent work in seminar rooms and computer labs; testing plants, where applicable. The topic of the Master's thesis is issued by a lecturer of the course. The student conducts research independently and presents the results in the form of a final written report and an oral presentation / English or German

Modes of assessment
Review of the Master thesis report and oral presentation (100%)

Requirement for the award of credit points
Successful evaluation (grade not lower than 4.0) of Master's thesis and oral presentation

Module applicability
MSc. Computational Engineering

Weight of the mark for the final score
40 %

Module coordinator and lecturer(s)
The Master's thesis may be issued and supervised by any habilitated, appointed or designated lecturer. External lecturers, who are not directly teaching in the CompEng course, have to apply for the position as 1st supervisor to the examination board.

Further information