

## Master Program

### „Computer Aided Conception and Production in Mechanical Engineering“

#### ⇒ Institute of General Mechanics (IAM)

Templergraben 64 (<http://www.iam.rwth-aachen.de>)



Univ.-Prof. Dr.-Ing. B. Markert  
(Institute and Program Director)



M.Sc. M. Shehadeh  
(Scientific and Student Advisor)

- ◆ Univ.-Prof. Dr.-Ing. Bernd Markert  
eMail: [markert@iam.rwth-aachen.de](mailto:markert@iam.rwth-aachen.de)
- ◆ M.Sc. Mohammad Shehadeh  
eMail: [shehadeh@iam.rwth-aachen.de](mailto:shehadeh@iam.rwth-aachen.de)

#### ⇒ RWTH International Academy (Master Office)

Kackertstraße 9 (<http://www.master-mechanical-engineering.com>)  
eMail: [contact@master-mechanical-engineering.com](mailto:contact@master-mechanical-engineering.com)

#### ⇒ Faculty of Mechanical Engineering (FB4)

Kackertstraße 9 (<http://www.maschinenbau.rwth-aachen.de>)  
eMail: [secretary@fb4.rwth-aachen.de](mailto:secretary@fb4.rwth-aachen.de)

#### ⇒ Central Examination Office (ZPA)

Templergraben 57 (<http://www.rwth-aachen.de/zpa/>)  
eMail: [zpa@zhv.rwth-aachen.de](mailto:zpa@zhv.rwth-aachen.de)

## **Master Program**

### **„Computer Aided Conception and Production in Mechanical Engineering“**

#### **1. Option “Conception of Machines”**

**Focus on computer-aided methods in construction and dimensioning of structures and mechanical systems (FEM, CAD, CFD ...)**

#### **2. Option “Production”**

**Focus on computer-aided systems in production, manufacturing, automation, planning and management**

## **RULES OF THE GAME**

⇒ **Exams:** All Exams that have been registered for have to be passed. Each following should be registered and checked on the virtual center examination office VZPA (online on campus system):

- ◆ **Number of trials: 3 per Exam**
- ◆ **Registration for exams: Central Examination Office (Zentrales Prüfungsamt, abbr.: ZPA, Templergraben 57):**  
(<http://www.rwth-aachen.de/zpa>)

⇒ **Internship:**

- ◆ 9 weeks of specialized industrial practical training
- ◆ Writing report has to be handed to the Student Internship Office:  
**Internship Office of the Faculty of Mechanical Engineering**  
Kackertstraße 9, Room 202 (**Ms. V. Petereit**)  
([petereit@fb4.rwth-aachen.de](mailto:petereit@fb4.rwth-aachen.de))

⇒ **Mini Thesis:**

- ◆ 260 h attendant on studies
- ◆ Accomplishment of scientific report

⇒ **Master Thesis:**

- ◆ 4 months starting at the moment of registration
- ◆ Pre-conditions for the registration:
  - Completed internship
  - Completed mini thesis
  - Required number of credit points 92
  - Certificate of the German language course



**Important: Only one thesis may be written externally**

Externally means: outside of the Faculty of Mechanical Engineering (FB4). An external thesis is subjected to authorization by the Examination board of the Faculty (Prüfungsausschuss, abbr.: PA) and must be supervised by an internal Professor.