# Automotive Engineering (M.Sc.) at RWTH Aachen University
## Programme Outline (valid for regulation MPO 2020/150)

**Bachelor Degree in Engineering**
Equivalence to Mechanical Engineering at RWTH (B.Sc. RWTH) required

### Automotive Engineering (M.Sc.)
Curriculum duration: 3 semesters, starting in October

| 1st | 2nd | 3rd |
|---|---|---|
| **Compulsory modules: total 38 CP**<br>*In English: Lectures/exercises & examination* | | **Master Thesis: 30 CP**<br>*in English (German permitted), plus oral presentation* |
| I. Automotive Engineering III – Driver Assistance Systems<br>II. Battery Storage Systems<br>III. Processes and Principles of Lightweight Design | I. Alternative and Electrified Vehicle Propulsion Systems<br>II. Internal Combustion Engines – Design & Mechanics<br>III. Machine Design of Rigid Systems<br>IV. Structural Design of Vehicles | |
| **Elective modules: total 22 CP**<br>*In English: Lectures/exercises/labs & examination* | | |
| Catalogue of 14 different modules (5 – 6 CP/module) | Catalogue of 11 different modules (2 – 6 CP/module) | |
| **Enrolment condition modules*: maximum 30 CP**<br>*In English: Lectures/exercises & examination* | | |

* A high number of enrolment conditions will lead to a longer duration of studies (usually one additional semester).

**Professional career** or **further qualification**
(e.g. Ph.D., Dr.-Ing., etc.)

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