

Welcome to the Faculty of Automotive Systems and Production

Information for Exchange Students

M. Sc. Automotive Engineering



Technology
Arts Sciences
TH Köln

I Important Facts

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| Official Website | www.th-koeln.de |
| Mailing address of the Faculty of Automotive Systems and Production | Fakultät für Fahrzeugsysteme und Produktion Campus Deutz Betzdorfer Str. 2 50679 Köln |
| Website of the faculty for international students | https://www.th-koeln.de/fahrzeugsysteme-und-produktion/incoming_52795.php |
| International exchange coordinator | Prof. Dr. Rainer Haas rainer.haas@th-koeln.de +49 221-8275-2342 Office: HO2 108 |
| International Office of the faculty | Yvette Gossel yvette.gossel@th-koeln.de +49 221-8275-4583 Office: HO2 106 Facebook: https://www.facebook.com/Internationales-Büro-F08-TH-Köln-122185159177171/ |
| Administrative Office of the Master´s program Automotive Engineering | Ulrike Sagorski ulrike.sagorski@th-koeln.de +49 221-8275-2347 |
| Language of instruction | German / English-friendly courses |
| German language proficiency | B1 (exchange students), higher level required for degree seeking students |
| General information for exchange students (provided by our central International Office at TH Köln) | https://www.th-koeln.de/en/international_office/exchange-students_21380.php |
| Module handbooks, study plans, schedules, the academic calendar and timetables of the degree program | https://www.th-koeln.de/studium/automotive-engineering-master--fuer-studierende_3031.php |
| Deadline for the Final Learning Agreement | 4 weeks after semester start, the final Learning Agreement (Learning Agreement During the Mobility) needs to be uploaded (Mobility Online platform) |
| Examination Periods | There are two examination periods each semester: at the end of the lecture period and at the end of the semester break. |

II How to select your courses

Step-by-Step Guide

1. Choose the modules you would like to enrol for

The [module handbook](#) (Modulhandbuch) provides you with all the necessary information about your study program and is written completely in English. You can consult the study plan on page 6 in the handbook to get an overview of the offered modules and the semester in which they take place. Please note that some modules may only be offered in a certain period: *SoSe* corresponds to the summer and *WiSe* to the winter term. An English translation and other useful information can be found in the **List of Modules** on the next page.

2. Consult the general timetable

The [timetable](#) (Veranstaltungsplan) is published approximately one month prior to the beginning of the lectures. If you have difficulties recognizing the abbreviations in the timetables, please consult the List of Modules.

3. Create your own timetable

You can choose your lectures from the two charts, but please make sure that they do not overlap.

In addition to the obligatory modules there are optional modules, so called electives (Wahlmodule). Please keep in mind that not all of them are offered in both semesters and that there is a limited number of participants. Those modules are marked as *optional* in the List of Modules. International students should enquire free capacity by contacting the lecturers via email. You can find their names in the [module handbook](#) (Modulhandbuch) and their contact details in the official [list of staff](#) (Personen) of the TH Köln.

If you need any further information please consult the official website of the study programme [M.Sc. Automotive Engineering](#) or the website of the [International Office of the faculty](#) (also available in English).

III List of Modules

| Modules of M.Sc. Automotive Engineering | | | | | | | | | |
|---------------------------------------------------------|--------|----|-------------------------|----------------------------|----------|-------|-----------------------|----------|------------------|
| Module | Term | CP | Optional/ obligatory | Language of Instruction | | Abbr. | Lecturer | Semester | Module Number |
| | | | | Lecture | Material | | | | |
| Advanced Body Engineering and Lightweight Design | summer | 6 | obligatory | DE | DE/EN | ABE | Herrmann | 1 | |
| Advanced Combustion Engines | winter | 4 | optional | DE | DE/EN | ACE | Münch | 2 | |
| Advanced Materials | summer | 6 | obligatory | DE/EN | DE/EN | AM | Krug, Stollenwerk | 1 | |
| Advanced Thermodynamics | winter | 4 | optional | DE | DE/EN | ATD | Münch | 2 | |
| Advanced Vehicle Safety | winter | 4 | optional | DE | DE/EN | AVS | Viscido | 2 | |
| Automotive Manufacturing Processes | winter | 4 | optional | DE/EN | DE/EN | AMP | Hartl | 2 | |
| Automotive Supply Chain Management | summer | 4 | optional | DE/EN | DE/EN | ASCM | Schulte Herbrüggen | 1 | |
| Component Design, Materials and Manufacture | winter | 4 | optional | DE/EN | DEEN | CDMM | Krug | 2 | |
| Control System Design | winter | 4 | optional | DE | DE/EN | CSD | Henrichfreise | 2 | |
| Corporate Management | winter | 4 | optional | DE | DE/EN | CM | Matoni | 2 | |
| Cost-Efficient Product Design | winter | 4 | optional | DE/EN | DE/EN | CEPD | Stekolschik | 2 | |
| Digital Factory | winter | 4 | optional | DE | DE/EN | DiFa | Breede | 2 | |
| Driver Assistance Systems | winter | 4 | optional | DE/EN | DE/EN | DAS | Tiltmann | 2 | |

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|-------------------------------------------------|--------|---|------------|-------|-------|-------------|----------------------|---|--|
| Engineering Ethics | winter | 4 | optional | DE | DE | EE | Zilkens | 2 | |
| FEA in Body Engineering | winter | 4 | optional | DE | DE/EN | FEx | Herrmann | 2 | |
| Leadership Application | winter | 4 | optional | DE/EN | DE/EN | LSA | - | 2 | |
| Legal Requirements and Homologation | winter | 4 | optional | DE | DE | LRH | Frantzen, Krug | 2 | |
| Mobility Concepts | winter | 4 | optional | DE | DE/EN | MC | Frantzen | 2 | |
| Modelling of Multi-Body Systems | winter | 4 | optional | DE | DE/EN | MMS | Henrichfreise | 2 | |
| Numerical Methods | summer | 6 | obligatory | DE | DE/EN | NM | Engelmann | 1 | |
| NVH Systems Engineering | winter | 4 | optional | DE | DE/EN | NVH | Faßbender, Haas | 2 | |
| Optimal Control and Estimation | winter | 4 | optional | DE | DE/EN | OCE | Henrichfreise | 2 | |
| Statistical Optimization | winter | 4 | optional | DE | DE/EN | SO/StOp | Lenz | 2 | |
| Structural Durability | winter | 4 | optional | DE/EN | DE/EN | SD | Krug | 2 | |
| Sustainability | winter | 4 | optional | DE | DE/EN | SUT | Severengiz, Krug | 2 | |
| Technology of Material Flow and Robotics | winter | 4 | optional | DE | DE/EN | TMFR/ MR | Breede | 2 | |
| Vehicle Concepts and Integration | summer | 6 | obligatory | DE | DE/EN | VCI | Frantzen | 1 | |
| Vehicle Dynamics and Automotive Chassis | summer | 6 | obligatory | DE/EN | DE/EN | VDAC | Betzler | 1 | |
| Vehicle Dynamics Simulation | winter | 4 | optional | DE/EN | DE/EN | VDS | Betzler | 2 | |
| Vehicle Electronics and Communication | summer | 6 | obligatory | DE/EN | DE/EN | VEC | Viscido, Gundlach | 1 | |
| Virtual Reality | winter | 4 | optional | DE | DE/EN | VR | Ruschitzka | 2 | |