Welcome to the Faculty of Automotive Systems and Production

Information for Exchange Students

M. Sc. Automotive Engineering

[updated on 30/08/22]

Technology
Arts Sciences
TH Köln

I Important Facts

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/en/automotive-systems-and-production/incoming_53323.php
International exchange coordinator / Vice Dean of International Affairs	Prof. Dr.-Ing. Michael Frantzen michael.frantzen@th-koeln.de +49 221-8275-2352 Office: HO2 117
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 (C1)
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/en/academics/automotive-engineering-masters-program--for-students_87039.php
Deadline for the Final Learning Agreement	4 weeks after the 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 catalog (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 **Module List** 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 **Module List**.

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 Module List

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	7.1
Advanced Combustion Engines	winter	4	optional	DE	DE/EN	ACE	Münch	2	7.5
Advanced Materials	winter	6	obligatory	DE/EN	DE/EN	AM	Krug, Stollenwerk	1	7.10
Advanced Thermodynamics	summer	4	optional	DE	DE/EN	ATD	Münch	2	7.11
Advanced Vehicle Safety	winter	4	optional	DE	DE/EN	AVS	Viscido	2	7.8
Automotive Manufacturing Processes	winter	4	optional	DE/EN	DE/EN	AMP	Hartl	2	7.16
Automotive Supply Chain Management	winter	4	optional	DE/EN	DE/EN	ASCM	Schulte Herbrüggen	1	7.22
Component Design, Materials and Manufacture (project-based)	winter/ summer	4	optional	DE/EN	DE/EN	CDMM	Krug	2	7.23
Corporate Management	winter	4	optional	DE	DE/EN	CM	Matoni	2	7.17
Cost-Efficient Product Design	winter	4	optional	DE/EN	DE/EN	CEPD	Stekolschik	2	7.25
Digital Factory	winter	4	optional	DE/EN	DE/EN	DiFa	Breede	2	7.18
Driver Assistance Systems	winter	4	optional	DE/EN	DE/EN	DAS	Tiltmann	2	7.26
Engineering Ethics	winter	4	optional	DE	DE	EE	Ruschitzka, Zilkens	2	7.21
FEA in Body Engineering	winter	6	optional	DE	DE/EN	FEx	Herrmann	2	7.6

Leadership Application[1]	winter	4	optional	DE/EN	DE/EN	LSA	-	2	
Legal Requirements and Homologation	winter	4	optional	DE	DE	LRH	Pusch	2	7.19
Mobility Concepts	winter	4	optional	DE	DE/EN	MC	Frantzen	2	7.27
Numerical Methods in Engineering Sciences	summer	6	obligatory	DE	DE/EN	NM	Engelmann	1	7.9
NVH Systems Engineering	summer	4	optional	DE/EN	DE/EN	NVH	Haas	2	7.7
Optimal Control and Estimation	winter	4	optional	DE	DE/EN	OCE	Engelmann	2	7.12
Scientific Seminar/Advanced Technical English	winter/ summer	-	upon request	EN	EN	ScSe/ ATE	Frantzen	1/2	7.29
Statistical Optimization	winter	4	optional	DE	DE/EN	SO	Lenz	2	7.13
Structural Durability	winter	4	optional	DE/EN	DE/EN	SD	Krug	2	7.14
Sustainability	summer	4	optional	DE	DE/EN	SUT	Hesse	2	7.20
Technology of Material Flow and Robotics	winter	4	optional	DE/EN	DE/EN	TMR	Breede	2	7.28
Vehicle Concepts and Integration	summer	6	obligatory	DE	DE/EN	VCI	Frantzen	1	7.2
Vehicle Dynamics and Automotive Chassis	summer	6	obligatory	DE/EN	DE/EN	VDAC	Betzler	1	7.3
Vehicle Dynamics Simulation	winter	4	optional	DE/EN	DE/EN	VDS	Betzler	2	7.15
Vehicle Electronics and Communication	summer	6	obligatory	DE/EN	DE/EN	VEC	Viscido	1	7.4
Virtual Reality	summer	4	optional	DE	DE/EN	VR	Ruschitzka	2	7.24

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