Welcome to the Faculty of Automotive Systems and Production

Information for Exchange Students

B. Eng. Automotive Engineering

[updated on 06/08/21]

Technology
Arts Sciences
TH Köln

I Important Facts

Official Website of TH Köln	**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
Vice Dean of International Affairs	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/
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/studium/fahrzeugtechnik-bachelor--fuer-studierende_2296.php
Facebook page of the student body of the degree program	https://de-de.facebook.com/Fachschaft.Fahrzeugtechnik.TH.Koeln/ Office: ZW3-20/21
Deadline for the final Learning Agreement	4 weeks after semester start, the final Learning Agreement (Learning Agreement during the mobility) needs to be uploaded on the Mobility Online platform
Examination Periods	There are two examination periods each semester: two weeks after the end of the lecture period (winter: February/summer: July) and two weeks before the start of the next semester (winter: March/summer: September).

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 degree program. Consult the study plan on page 5 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 term: 1st and 3rd are offered only in winter (WiSe), 2nd and 4th only in summer (SoSe), 5th to 7th in winter and summer. An English translation and other useful information can be found in the **Module List** on the next page. English-friendly courses are marked in blue.

2. Consult the general timetable

The timetable (Veranstaltungsplan) is published approximately one month prior to the beginning of the lectures. Please note that there are several timetables which correspond to the semester numbers in the study plan. If you have difficulties recognizing the abbreviations in the timetables, please consult the **Module List**.

3. Create your own timetable

You can choose your lectures from the three columns. On the left you see the lecturers' last name or its abbreviation and in the middle the abbreviation of the lecture. If you would like to choose courses from different semesters or columns, 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**. International students should enquire free capacity by contacting the lecturers via email. You can find their names in the module catalog and their contact details in the official list of staff (Personen) of TH Köln.

If you need any further information please consult the official website of the degree program B.Eng. Automotive Engineering or the website of the International Office of the faculty.

III Module List

Modules of B.Eng. Automotive Engineering (Fahrzeugtechnik)										
German	**English**	**Term**	**CP**	**Optional/ obligatory**	**Language of Instruction**		**Abbr.**	**Lecturer**	**Semes-ter**	**Module no.**
					Lecture	**Material**				
Aerodynamik	**Aerodynamics**	summer	5	optional	DE	DE	AD	Münch	4/5	5122
Berechnung von Faserverbundbauteilen in der Fahrzeugtechnik	**Calculation of Fiber Composite Components in Automotive Engineering**	winter	5	optional	DE	DE	-	Möller	4/5	-
Betriebsfestigkeit - Grundlagen	**Fundamentals of Structural Durability**	winter	5	optional	DE	DE	BFG	Krug	5/6	5250
Betriebswirtschaft und Marketing	**Business Administration and Marketing**	winter/ summer	5	obligatory	DE	DE	BWL	Kim	5	4020
CAD II	**CAD II**	summer	5	optional	DE	DE	CAD II	Ch. Ruschitzka	4/5	5230
Composite Design	**Composite Design**	summer	5	optional	DE	DE	CD	Gehrmann	4/5	5296
eDrive – Elektrische Antriebe in Fahrzeugen	**eDrive – Electric Drives for Vehicles**	winter	5	optional	DE	DE	EDR	Gundlach	4/5	5116
Einführung in MATLAB	**Introduction to MATLAB**	winter	5	optional	DE	DE	MAT	Farshizadeh	4/5	5308
Einspritztechnik	**Fuel Injection Technology**	summer	5	optional	DE	DE	EST	Münch	4/5	5150

Elektrotechnik	**Electronics**	summer	5	obligatory	DE	DE	ET	Viscido/ Gundlach	2	2310
Fahrmechanik	**Automotive Mechanics**	winter/ summer	5	obligatory	DE	DE/EN	FM	Frantzen	4	3010
Fahrzeugsensoren	**Vehicle Sensors**	summer	5	obligatory	DE	DE	FS	Viscido/ Xin Wu	4	2340
Fahrwerk-/Simulationstechnik	**Simulation of Chassis Motion**	winter/ summer	5	optional	DE	DE	FST	Betzler	5	5270
Fahrwerke	**Chassis**	winter/ summer	5	obligatory	DE	DE	FW	Betzler	6	3020
Fahrzeugantriebe	**Vehicle Drive Systems**	winter/ summer	5	obligatory	**DE/ EN**	**DE/ EN**	FZA	Haas	4	3052
Fahrzeugdiagnose	**Vehicle Diagnostic**	winter/ summer	5	optional	DE	DE	DIA/ FZD	Brockmann	5/6	5309
Fahrzeugelektrik & -elektronik	**Vehicle Electronics**	winter	5	obligatory	DE	DE	FEE	Viscido	3	3070
Fahrzeugkarosserie	**Vehicle Bodies**	winter/ summer	5	obligatory	DE	DE	FKA	Herrmann	5	3030
Fahrzeugschwingungen und -akustik	**Vehicle NVH**	winter	5	optional	DE	DE	NVH	Haas	5	5290
Fahrzeugsicherheit	**Vehicle Safety**	summer	5	optional	DE	DE	FZS	Sprenger	4/5	5160
Fahrzeugsystemtechnik	**Automotive Systems**	summer	5	obligatory	DE	DE	FZT	Viscido	6	3060
Fertigungsverfahren	**Manufacturing Processes**	winter	5	obligatory	DE	DE	FV	Hartl	1	2330
Informatik - Grundlagen	**Fundamentals of Computer Science**	winter	5	obligatory	DE	DE	INF	Jendges	3	1040
Ingenieurmathematik I	**Mathematics for Engineers I**	winter	5	obligatory	DE	DE	MA I	M. Ruschitzka/ Richter	1	1010

Ingenieurmathematik II	**Mathematics for Engineers II**	summer	5	obligatory	DE	DE	MA II	Jendges/ M. Ruschitzka/ Richter	2	1020
Ingenieurmathematik III	**Mathematics for Engineers III**	winter	5	obligatory	DE	DE	MA III	Jendges/ M. Ruschitzka	3	1030
Leichtbau/FEM	**Light Framing/FEM**	winter/ summer	5	optional	DE	DE	FEM	Herrmann	4/5	5118
Maschinenelemente I	**Machine Elements**	summer	5	obligatory	DE	DE	ME I	Faßbender	2	2050
Maschinenelemente II	**Machine Elements**	winter	5	obligatory	DE	DE	ME II	Faßbender	3	2060
Nutzfahrzeugtechnik	**Commercial Vehicle Engineering**	summer	5	optional	DE	DE	NFT	Gees	4/5	5110
Oberflächen- und Schichttechnologie	**Surfaces and Coating Technology**	winter	5	optional	DE	DE	OST	Stollenwerk	4/5	5280
Passive Sicherheit	**Passive Safety**	summer	5	optional	DE	DE	PS	-	4/5	5299
Physik I	**Physics I**	winter	5	obligatory	DE	DE	PH I	Stollenwerk/ Hilger	1	1050
Physik II	**Physics II**	summer	5	obligatory	DE	DE	PH II	Stollenwerk/ Hilger	2	1060
PKW-Hydraulik	**Automobile Hydraulics**	summer	5	optional	DE	DE	HYD	Faßbender	4/5	5282
Qualitätsmanagement	**Quality Management**	winter	5	optional	DE/EN	DE/EN	QM	Pusch	5	5400
Schlüsselqualifikationen	**Key Qualifications**	winter/ summer	5	obligatory	DE	DE	-	Blaurock	7	-
StartIng	**StartIng**	winter	2	obligatory	DE	DE/EN	STING	Frantzen/ Schnitzler	1	1090
Regelungstechnik	**Control Engineering**	summer	5	obligatory	DE	DE	RT	**Viscido**/ Bernhard	4	2320

Sachverständigenwesen I	**Accident and Damage Assessment I**	winter	5	optional	DE	DE	SVW I	Sprenger	4/5	5210
Sachverständigenwesen II	**Accident and Damage Assessment II**	winter	5	optional	DE	DE	SVW II	Sprenger	4/5	5220
Schwingungslehre	**Vibration Theory**	winter/ summer	5	obligatory	DE	DE	SW	Kardelky	4	2040
Simulation von Kfz-Systemen	**Simulation of Automobile Systems**	summer	5	optional	DE	DE	SKS	Jendges	4/5	5297
Technisches Zeichnen/ (CAD)	**Technical Drawing/ CAD**	winter/ summer	5	obligatory	DE	DE	CAD/ TZ	Ch. Ruschitzka	1/2	2070/ 2080
Technische Mechanik I	**Technical Mechanics I**	winter	5	obligatory	DE	DE	TM I	Blaurock	1	2410
Technische Mechanik II	**Technical Mechanics II**	summer	5	obligatory	DE	DE	TM II	Kardelky	2	2420
Technische Mechanik III	**Technical Mechanics III**	winter	5	obligatory	DE	DE	TM III	Kardelky	3	2430
Thermodynamik und Strömungsmechanik	**Thermodynamics and Fluid Mechanics**	winter	5	obligatory	DE	DE	TUS	Münch	3	2130
Tribologie und Kfz-Betriebsstoffe	**Tribology and Automotive Fuels and Fluids**	winter	5	optional	DE	DE	TRI	Winkler	4/5	5260
Verbrennungsmotoren	**Internal Combustion Engines**	winter/ summer	5	optional	DE	DE	VM	Brunnberg/ **Haas**	4/5	5126
Virtuelle Produktentwicklung /CAD III	**Virtual Product Development**	winter	5	optional	DE	DE	CAD III	Ch. Ruschitzka	4/5	5240
Werkstoffkunde I	**Materials Science I**	winter	5	obligatory	DE	DE	WSK I	Krug	1	1070
Werkstoffkunde II	**Materials Science II**	summer	5	obligatory	DE	DE	WSK II	Krug	2	1080
Werkstoffprüfung	**Material Testing**	summer	5	optional	DE	DE	WP	Krug	5	5200