

Welcome to the Faculty of Automotive Systems and Production

Information for Exchange Students

B. Eng. Automotive Engineering



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
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/
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/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 (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 handbook](#) (Modulhandbuch) provides you with all the necessary information about your study program. Consult the study plan on page 5 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 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 **List of Modules** on the next page. English-friendly courses are marked in blue.

2. Consult the general timetable

The [timetables](#) (Veranstaltungsplan) are 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 **List of Modules**.

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 **List of Modules**. International students should enquire free capacity by contacting the lecturers via email. You can find their names in the module handbook 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 [B.Eng. Automotive Engineering](#) or the website of the [International Office of the faculty](#) (also available in English).

III List of Modules

Modules of B.Eng. Automotive Engineering (Fahrzeugtechnik)

German	English	Term	CP	Optional/ obligatory	Language of Instruction		Abbr.	Lecturer	Semester
					Lecture	Material			
Aerodynamik	Aerodynamics		4	optional	DE	DE	AD	Münch	5/6
Betriebsfestigkeit - Grundlagen	Fundamentals of Structural Durability		4	optional	DE	DE	BFG	Krug	5/6
Betriebswirtschaftslehre/ Total Quality Management	Business Administration	winter	4	obligatory	DE	DE	BWL/ TQM	Matoni	6
CAD II (Virtuelle Produktentwicklung)	CAD II		4	optional	DE	DE	CAD II	Ruschitzka	5/6
CAE Tools in der Mechatronik u. Regelungstechnik	CAE Tools in Mechatronics and Control Engineering		4	optional	DE	DE	CAE	Henrichfreise	5/6
Composite Design	Composite Design		4	optional	DE	DE	CD	Gehrmann	5/6
eDrive – Elektrische Antriebe in Fahrzeugen	eDrive – Electric Drives for Vehicles		4	optional	DE	DE	EDR	Gundlach	5/6
Einführung in MATLAB	Introduction to MATLAB		4	optional	DE	DE	MAT	Farshizadeh	7
Einspritztechnik	Fuel Injection Technology	summer	4	optional	DE	DE	EST	Münch	5/6
Elastostatik	Elastostatics		6	obligatory	DE	DE	ES	Kardelky	2

Elektrotechnik	Electronics	summer	4	obligatory	DE	DE	ET	Viscido/ Gundlach	2
Entwurf mechatronischer Systeme	Design of Mechatronic Systems		4	optional	DE	DE	EMS/ MECS	Henrichfreise	5/6
Fahrmechanik	Automotive Mechanics		6	obligatory	DE	DE	FM	Frantzen	5
Fahrwerk-/Simulationstechnik	Simulation of Chassis Motion		4	optional	DE	DE	FST	Betzler	5/6
Fahrwerke	Chassis		6	obligatory	DE	DE	FW	Betzler	6
Fahrzeugantriebe	Vehicle Drive Systems	win/ sum	6	obligatory	DE/ EN	DE/ EN	FZA/ FA	Haas	5
Fahrzeugdiagnose	Vehicle Diagnostic		4	optional	DE	DE	DIA/ FZD	Brockmann	5/6
Fahrzeugelektrik & -elektronik	Vehicle Electronics	win/sum	5	obligatory	DE	DE	FEE	Viscido/ Hillgärtner	3
Fahrzeugkarosserie	Vehicle Bodies	win/sum	6	obligatory	DE	DE	FKA	Herrmann	6
Fahrzeugschwingungen und -akustik	Vehicle Vibrations and Acoustics		4	optional	DE	DE	FCA/ SCHW&AK	Haas	5/6
Fahrzeugsicherheit	Vehicle Safety		4	optional	DE	DE	FZS	Wallrich/ Sprenger	5/6
Fahrzeugsystemtechnik	Automotive Systems	win/sum	6	obligatory	DE	DE	FST	Viscido	6
Fertigungstechnik/Logistik	Manufacturing Engineering	winter	4	obligatory	DE	DE	FT Log/ FTL	Matoni	3
Informatik-Grundlagen	Fundamentals of Computer Science		4	obligatory	DE	DE	INF	Engelmann/ Jendges/ M. Ruschitzka/ Henrichfreise	1
Ingenieurmathematik I	Mathematics for Engineers I	winter	6	obligatory	DE	DE	MA I	Engelmann/ Jendges/ M. Ruschitzka	1

Ingenieurmathematik II	Mathematics for Engineers II	summer	6	obligatory	DE	DE	MA II	Engelmann/ Jendges/ M. Ruschitzka	2
Ingenieurmathematik III	Mathematics for Engineers III	winter	6	obligatory	DE	DE	MA III	Engelmann/ Jendges/ M. Ruschitzka	3
Kinematik & Kinetik	Kinematics & Kinetics	winter	6	obligatory	DE	DE	KI	Kardelky	3
Leichtbau/FEM	Light Framing/FEM		4	optional	DE	DE	FEM	Herrmann	5/6
Maschinenelemente	Machine Components	summer	4	obligatory	DE	DE	ME	Wallrich/ Faßbender	2
Nutzfahrzeugtechnik	Commercial Vehicles		4	optional	DE	DE	NFT		5/6
Oberflächen- und Schichttechnik	Introduction to Surface and Coating Technology		4	optional	DE	DE	OST	Stollenwerk	5/6
Physik I	Physics I	winter	5	obligatory	DE	DE	PH I	Stollenwerk/ Hilger	1
Physik II	Physics II	summer	4	obligatory	DE	DE	PH II	Stollenwerk/ Hilger	2
PKW-Hydraulik	Car Hydraulics Engineering		4	optional	DE	DE	PKWHYD	Faßbender	5/6
Projekt I - STARTING	Project I - STARTING	winter	2		DE	DE		Frantzen	1
Projekt II – ME /CAD	Project II – ME / CAD	winter	5		DE	DE		Faßbender	3
Projekt III – Interdisziplinäres Projekt	Project III – Interdisciplinary Project	summer	4		DE/EN	DE/EN		Haas	7
Projekt IV – Individuelles Projekt	Project IV – Individual Project	summer/winter	4		DE/EN	DE/EN		Haas	7

Regelungstechnik, Aktorik & Sensorik	Control Engineering, Actuator and Sensor Technology		8	obligatory	DE	DE	RSA/RTSA	Viscido/ Kanzenbach/ Bernhard	5
Sachverständigenwesen I	Accident and Damage Assessment I		4	optional	DE	DE	SVW I	Sprenger/ Wallrich	5/6
Sachverständigenwesen II	Accident and Damage Assessment II		4	optional	DE	DE	SVW II	Sprenger/ Wallrich	5/6
Schwingungslehre	Theory of Vibration	win/sum	4	obligatory	DE	DE	SW	Kardelky	5
Simulation von Kfz-Systemen	Simulation of Car Systems		4	optional	DE	DE	SKS	Jendges	5/6
Statik	Statics	winter	6	obligatory	DE	DE	STK	Blaurock	1
Technisches Zeichnen/Virtuelle Produktentwicklung (CAD)	Technical Drawing/Virtual Product Development		4	obligatory	DE	DE	CAD/ TZ	Ch. Ruschitzka	1/2
Thermodynamik und Strömungslehre	Thermodynamics	winter	6	obligatory	DE	DE	TD-SL/ T&S	Münch	3
Tribologie und Kfz-Betriebsstoffe	Tribology		4	optional	DE	DE	TRI	-	5/6
Verbrennungsmotoren	Internal Combustion Engines		4	optional	DE	DE	VM/ VMO	Brunnberg/ Haas	5/6
Virtuelle Produktentwicklung	Virtual Product Development		4	optional	DE	DE	CAD III	Ch. Ruschitzka	5/6
Werkstoffkunde I	Materials Science I	winter	4	obligatory	DE	DE	WSK I	Krug	1
Werkstoffkunde II	Materials Science II	summer	4	obligatory	DE	DE	WSK II	Krug	2