

# Information for Exchange Students

M.Sc. Mechatronics



# I Important Facts

<b>Mailing address of institution</b>	Technische Hochschule Köln Gustav-Heinemann-Ufer 54 50968 Köln Germany
<b>Official Website</b>	<a href="http://www.th-koeln.de">www.th-koeln.de</a>
<b>Mailing address of the Faculty of Automotive Systems and Production</b>	Fakultät für Fahrzeugsysteme und Produktion Campus Deutz Betzdorfer Str. 2 50679 Köln
<b>Website of the Faculty (in German)</b>	<a href="https://www.th-koeln.de/fahrzeugsysteme-und-produktion/fakultaet-fuer-fahrzeugsysteme-und-produktion_2464.php">https://www.th-koeln.de/fahrzeugsysteme-und-produktion/fakultaet-fuer-fahrzeugsysteme-und-produktion_2464.php</a>
<b>International exchange coordinator</b>	Prof. Dr. Rainer Haas <a href="mailto:rainer.haas@th-koeln.de">rainer.haas@th-koeln.de</a> +49 221-8275-2342 Office: HO2 108
<b>Language of instruction</b>	German / English friendly courses
<b>German language proficiency</b>	B1
<b>Academic calendar</b>	<a href="https://www.th-koeln.de/mam/downloads/deutsch/hochschule/fakultaeten/fahrzeugtechnik_und_production/semester_and_exam_periods.pdf">https://www.th-koeln.de/mam/downloads/deutsch/hochschule/fakultaeten/fahrzeugtechnik_und_production/semester_and_exam_periods.pdf</a>
<b>Information for exchange students</b>	<a href="https://www.th-koeln.de/en/international_office/exchange-students_21380.php">https://www.th-koeln.de/en/international_office/exchange-students_21380.php</a>
<b>Module handbooks, study plans, schedules and timetables</b>	<a href="https://www.th-koeln.de/studium/mechatronik-master--fuer-studierende_2390.php">https://www.th-koeln.de/studium/mechatronik-master--fuer-studierende_2390.php</a>
<b>Deadline for the Final Learning Agreement</b>	4 weeks after semester start the final Learning Agreement (Learning Agreement During the Mobility) needs to be uploaded (Mobility Online platform)
<b>Examination Periods</b>	There are two examination periods each semester: at the end of the lecture period and the "2 <sup>nd</sup> try" 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](#) provides you with all the necessary information about your study program. Consult the study plan on page 3 and 4 of the handbook to get an overview of the offered modules and the semester in which they take place. 1<sup>st</sup> semester corresponds to the summer and the 2<sup>nd</sup> 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

Since the timetables are published approximately one month prior to the beginning of the lectures and there is no online access to them, you could kindly ask [Prof. Dr. Haas](#) (see list above) to send you the timetable. If you have difficulties recognising the German names of the modules in the timetables, please consult the **List of Modules**.

#### 3. Create your own timetable

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](#) of the TH Köln.

If you need any further information please consult the official website of the study programme [M.Sc. Mechatronics](#).

### III List of Modules

#### Modules of M.Sc. Mechatronics

English	German	Term	CP	Optional/ obligatory	Language of Instruction		Abbr.
					Lecture	Material	
<b>Advanced Control</b>	Advanced Control	summer	4	optional	DE	DE/EN	AC
<b>Advanced Mathematics</b>	Höhere Mathematik	summer	4	obligatory	DE	DE	HMa
<b>Automation Engineering: Selected Applications</b>	Ausgewählte Anwendungen der Automatisierungstechnik	summer	4	optional	DE	DE	AAA
<b>Computational Intelligence</b>	Computational Intelligence	winter	5	obligatory	DE	EN	CI
<b>Control System Design</b>	Entwurf von Regelungssystemen	winter	4	obligatory	DE	DE/EN	ERS
<b>Digital Control</b>	Digitale Regelung	winter	4	obligatory	DE	DE/EN	DR
<b>Electrical Drives</b>	Elektrische Fahrzeugantriebe	winter	5	obligatory	DE	DE/EN	EFA
<b>Embedded Systems</b>	Eingebettete Systeme	summer	4	obligatory	DE	DE/EN	ES
<b>Embedded Systems Design</b>	Entwurf eingebetteter Systeme	winter	4	optional	DE	DE	EES
<b>Fieldbus Fundamentals</b>	Feldbus - Grundlagen	winter	4	optional	DE	DE/EN	FG
<b>Fundamentals of Engineering Design</b>	Einführung in die Konstruktionslehre	summer	4	obligatory	DE	DE	EKL
<b>Implementation of Mechatronic Systems</b>	Realisierung mechatronischer Systeme	summer	4	obligatory	DE	DE/EN	RMS
<b>Mathematical Modelling of Mechatronic Systems</b>	Modellbildung mechatronischer Systeme	summer	6	obligatory	DE/EN	DE	MMS
<b>Mechatronic Research Project</b>	Mechatronisches Forschungsprojekt	winter	6	obligatory	DE	DE/EN	MF
<b>Motion Control</b>	Motion Control	winter	4	optional	DE	EN	MC
<b>Numerical Mathematics</b>	Numerische Mathematik	winter	6	obligatory	DE	DE/EN	NMa
<b>Optimal Control</b>	Optimale Regelung	summer	4	obligatory	DE	DE/EN	OR
<b>Robotics</b>	Robotik	summer	4	optional	DE	DE/EN	ROB
<b>Servo Hydraulics</b>	Servohydraulik	winter	4	obligatory	DE	DE	SH
<b>Software Engineering</b>	Software Engineering	winter	4	optional	DE	DE/EN	SE
<b>Special Aspects of Mobile Automotive Systems</b>	Spezielle Aspekte Mobiler Autonomer Systeme	winter	4	optional	DE	DE/EN	AMS

Please note that the terms (winter/summer) might have changed.