

# Welcome to our Department of Mechanical Engineering

## Your Guides for today

Department of Mechanical Engineering



## Meike Herbert, M.Sc.

Study advisor and International Coordinator at the Department of Mechanical Engineering since February 2023

- Study program Electromobility (ACES)
- Responsible for Learning agreements, contact person for exchange programmes

## Your guides for the Campus Tour

- Malaika Muschler, student assistant
- Brisilda Veizi, student assistant

## **Faculty Day for International Students**



Today's program

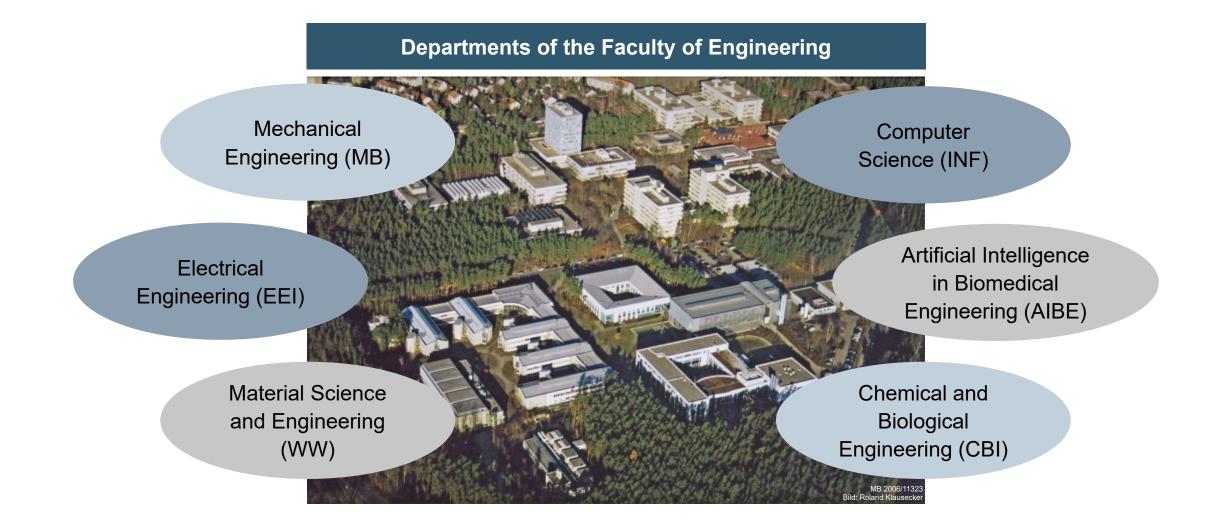
5 October 2023	Program	
11:30 am – 01:05 pm	General information about the faculty	
01:15 pm – 02:15 pm	Welcome and Information by the Department of Mechanical Engineering	
02:30 pm – 03:30 pm	Campus Tour (Meeting on the Red place)	



Image: FAU/Erich Malter

## **FAU – Faculty of Engineering**





Friedrich-Alexander-Universität Technische Fakultät



# Our study programs



## **Overview of our Study programs**



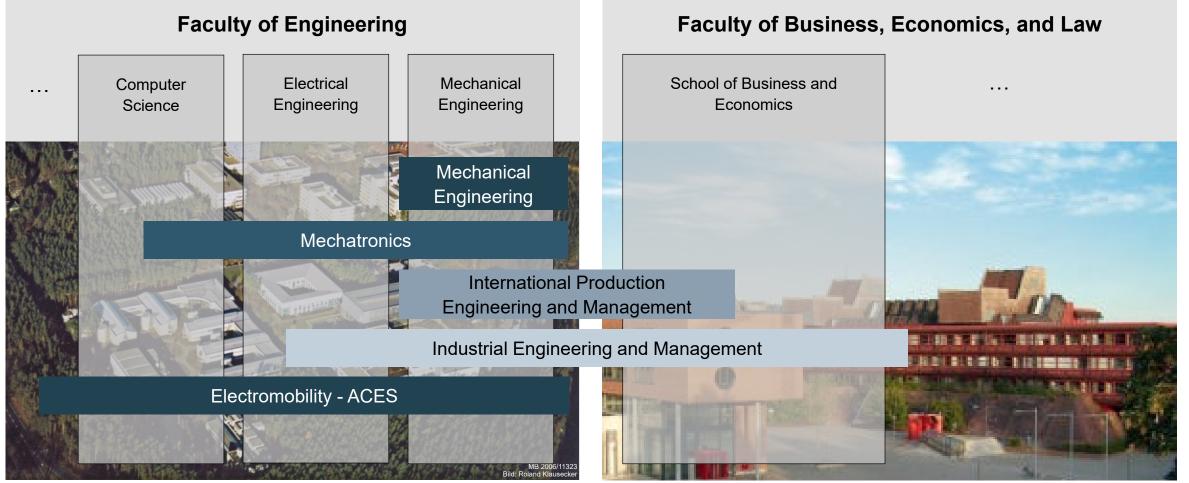


Image: FAU

# Study programs (offered in German language)

Mechanical Eng., Industrial Eng. and Management, Mechatronics

## Mechanical Engineering ("Maschinenbau")

- Teaching of fundamental knowledge in mechanical engineering
- Majors in e.g. computer-aided product development and production engineering

# Industrial Engineering and Management ("Wirtschaftsingenieurwesen")

- Interdisciplinary combination of engineering with business and economics
- Majors in mechanical engineering or electrical engineering

## Mechatronics ("Mechatronik")

- Interdisciplinary study program
- Combination of mechanical and electrical engineering with information technology







## **International Production Eng. and Managment**



Study program partly offered in English language

# International Production Engineering and Management

- Interdisciplinary study program combining engineering with business and economics
- Basic modules e.g. Mathematics, Mechanics mainly in German language
- Compulsory modules in engineering and economics e.g. Production technology, Quality management in English language
- Further lectures with international context e.g.
   International supply chain management, global operations strategy in English language

→ Modules in English are open to incoming exchange students at FAU



Bachelor | Master International Production Engineering and Management



#### STUDIENGANG

International Production Engineering and Management

#### STUDIENDAUER

Bachelor: 6 Semester (Bachelor of Science), **Studienbeginn im Sommer- und Wintersemester möglich** Master: 4 Semester (Master of Science) als Studienrichtung im Maschinenbau, Teilzeitstudium möglich

ZUGANGSVORAUSSETZUNGEN FÜR BACHELOR Keine

MÖGLICHE BERUFSFELDER Produktion und Fertigungsplanung international aufgestellter Industrieunternehmen

#### INDIVIDUELLE STUDIENGESTALTUNG

Der Studiengang soll deutschsprachige Studierende für das Berufsfeld der Produktionstechnik im internationalen Umfeld qualifizieren. In einem empfohlenen, integrierten Auslandssemester an einer unserer über 50 Partneruniversitäten oder während eines Auslandspraktikums können Sie internationale Erfahrungen sammeln und Ihre Fremdsprachenkenntnissen ausbauen.

#### STUDIENFACHANTEILE IM BACHELORSTUDIUM



Maschinenbau (D/E)

- Wirtschaftswissenschaften (D/E)
- Fremdsprachen und soft skills (D/E)
   Informatik (D)
- Elektrotechnik, Elektronik,
- Informationstechnik (D)
- Werkstoffwissenschaften (D)
- Mathematik (D)

#### INT. PRODUCTION ENGINEERING AND MANAGEMENT

Der deutsche Maschinen- und Anlagenbau steht als Schlüsselndustrie und Motor der Wirtschaft für Innovationskraft und echnologische Leistungsfähigkeit des Standortes Deutschland. Die Branche ist führender Anbieter von Maschinen weltweit.

> Legen Sie den Grundstein für Ihre berufliche Karriere: Auf Grund des hohen Exportanteils sind alle größeren Unternehmen im Bereich der Produktionstechnik international aufgestellt und suchen dringend genauso international ausgerichtete Fach- und Führungskräfte, die neben ihrem technischen Fachwissen auch Kompetenzen in Betriebswirtschaft und Fremdsprachen mitbringen.

> Auch die deutsche Fahrzeugindustrie hat international eine sehr hohe Bedeutung und stellt einen attraktiven Arbeitgeber dar.

8

## **Electromobility - ACES**

Bachelor's in German and Master's program in German + English

## **Electromobility-ACES Majors**

- Artificial Intelligence and Autonomous Driving (AI) ٠
- **C**onnectivity ٠
- **E**-Powertrain •
- **S**ustainable mobility and Production technology ٠
- $\rightarrow$  Students may choose 2 out of 4 majors
- Many modules are available in English for ACES Master students
- Study Start in Winter Semester 2022/24
- More Information on ACES. https://www.aces.study.fau.eu/



#### Bachelor | Master **Elektromobilität-ACES**





#### STUDIENGANG Elektromobilität-ACES

#### STUDIENDAUER

Bachelor: 6 Semester (Bachelor of Science) Master: 4 Semester (Master of Science) deutsch oder englisch

ZUGANGSVORAUSSETZUNGEN FÜR BACHELOR keine

#### MÖGLICHE BERUFSFELDER

Vom e-Scooter über Elektroautos bis hin zum Zukunftsfeld elektrisches Fliegen - Elektromobilität boomt und Spezialistinnen und Spezialisten für diesen Bereich sind äußerst gefragt.

#### INDIVIDUELLE STUDIENGESTALTUNG?

Im Bachelorstudium erfolgt eine freie Schwerpunktwahl in den vier Bereichen ACES (s.u.) nach erfolgreichem Absolvieren der Pflichtmodule. Im Masterstudium ist dies ab Studienbeginn möglich.

#### STUDIENFACHANTEILE IM BACHELORSTUDIUM



#### Elektrotechnik, Elektronik. Informationstechnik Informatik Materialwissenschaft und Werkstofftechnik Mathematik

Sonstiges

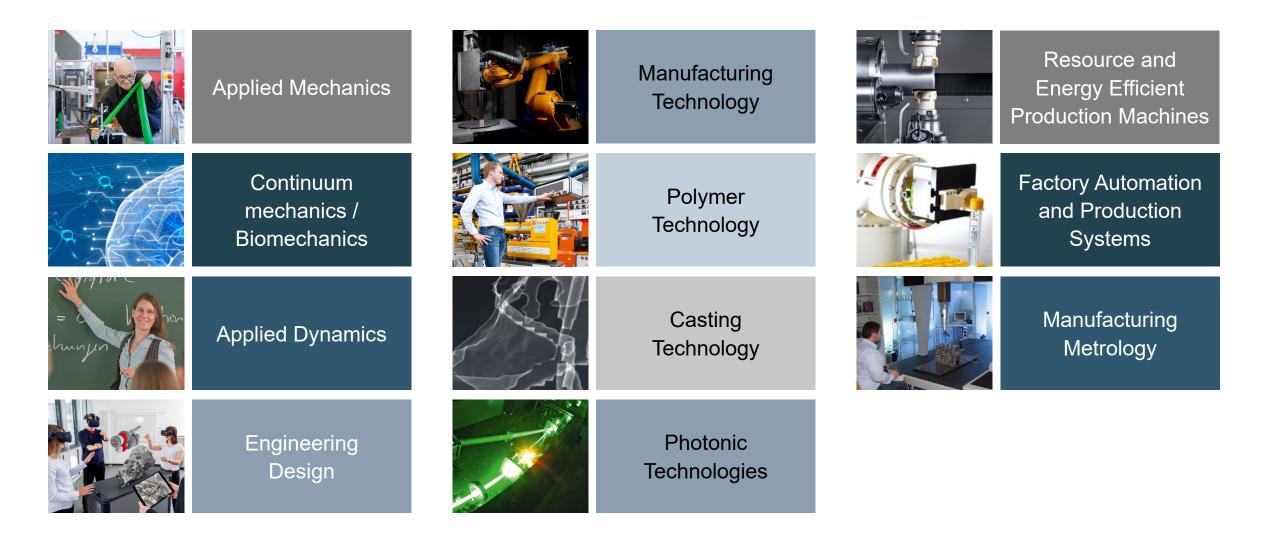
#### DER ELEKTROMOBILITÄT GEHÖRT DIE ZUKUNFT!

- mit vergleichbaren Leistungsdaten günstiger sein als die eines Verbrennerautos.
- Sie können aus allen diesen Bereichen passende Fächer wähle
- der Technischen Fakultät der Universität und die Handlungs felder für die Zukunft der Mobilität wider: **A**I & Autonomous Driving

9





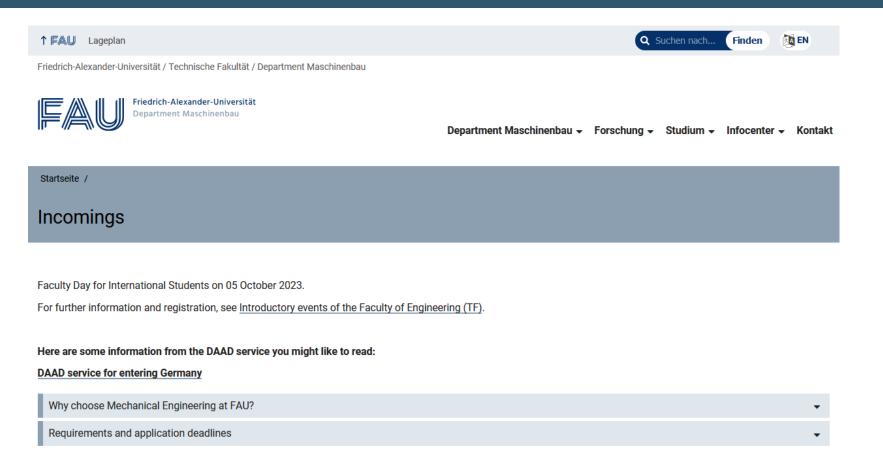


## **Our "Incomings" Website**

FAU

Information for incoming exchange students at Dep. of Mechanical Eng.

### https://www.department.mb.tf.fau.de/incomings/



# **Our "Incomings" Website**

Information for incoming exchange students at Dep. of Mechanical Eng.

# FAU

## https://www.department.mb.tf.fau.de/incomings/

	Link to lecture	Link to module	Lecturer	ECTS in winter semester 3)	ECTS in summer semester 3)	Level 2)
Engineering (Bachelor and Master level)						
Production Technology 1 with Exercises (with training in technical english)	Lecture	Module	Merklein e.a.	-	5	basic (B)
Production Technology 2 with Exercises (with training in technical english)	Lecture	Module	M. Schmidt e.a.	5	-	basic (B)
Advanced Seminar on International and Sustainable Production	Lecture	Module	div.	2,5	2,5	basic (B)
German language courses			University language center	5 – 15	5 – 15	basic, intermediate oder advanced (B, M)
Laser Technology	Lecture	Module	Schmidt, Cvecek	5	-	advanced (B, M)
Engineering of Solid State Lasers	Lecture	Module	Cvecek	-	2,5	advanced (B, M)
Integrated Production Systems (E-Learning course at <u>vhb</u> )	Lecture	Module	Franke	5	5	advanced (B, M)
International Supply Chain Management (E-Learning course at <u>vhb</u> )	Lecture	Module	Franke	5	5	advanced (B, M)
Introduction to the Finite Element Method	Lecture	Module	Mergheim	-	5	advanced (B, M)
Nonlinear Finite Elements	Lecture	Module	Mergheim	5	-	advanced (B, M)
Computational Dynamics	Lecture	Module	O. Schmitt	5	-	advanced (B, M)

### German language courses:

Please register at the FAU language centre <u>https://sz.fau.eu/</u>

Further courses from other Departments at the Faculty of Engineering are possible, but we have to check it.

## **Courses open for exchange students**

Useful links to other departments and study programs



## Faculty of Engineering: International Degree programmes and lectures

https://www.tf.fau.eu/studying/international/information-for-international-applicants/

## **Department of Chemical and Biological Engineering**

https://www.cbi.tf.fau.de/files/2022/06/Courses-in-English-for-exchange-students-CBI-2022-1.pdf

## **Department of Electrical Engineering**

https://www.eei.tf.fau.de/studium/international/coming-to-fau-eei/incomings/

### **Department of Computer Science**

https://www.informatik.studium.fau.de/studierende/erasmus-incoming-students/#CS-courses-FAU-incoming

### **Medical Engineering**

https://www.medical-engineering.study.fau.eu/prospective-students/incoming-exchange-students-2/#sprungmarke2

## Information about courses on "Campo"



www.campo.fau.de			Search for courses	
		< Main menu	Search Reset ① Help for search Basic data  Semester-independent title	
		Studies offered	Short text	
Home		Search for courses A	Semester-dependent title Semester Winter semester 2023	
Admission	>	Search for special events	Course type =  Teaching language =	- O - O
Studies offered	>	Show current courses		
Organisation Show university		Show university course catalog B	Course catalog for Winter semester 2023/24 Semester Winter semester 2023/24	
c	Close [ESC]	Module descriptions	Course catalogue	
		Show course of studies schedule	FAU course catalogue     FAU course catalogue     Faculty of Humanities, Social Sciences and Theology	
		Show lecturers timetable	Faculty of Business, Economics and Law	
			Faculty of Medicine      Faculty of Sciences	
			Faculty of Engineering	
			Electives, soft skills and language courses	
			FAU Scientia guest student program	

## Information about courses on "Campo"



Production Technology 2 (PT 2 eng.)   Veranstaltung Choose semester Semester Wintersemester 2023/24  Semester planning	Find out about teaching language, time and place of the course (e.g. lecture, exercise, seminar).				
Basic data Parallel groups / dates Course catalog Modules and degree programs Documents					
Production Technology 2 (PT 2 eng.) V					
Export data as iCalendar (ics) 112 Individual dates 🔍 Open details					
Semester hours per week 0.0 Maximum attendee	500				
Teaching Language     english       Responsible     • Prof. DrIng. Dietmar Drummer       • Prof. DrIng. Jörg Franke       • Prof. Dr. Nico Hanenkamp					
Changes         Frequency         Weekday         From - To         Cancellation date         Start date - End date         Exp. Att.         Comm	nent Lecturer(s) Room				
Meekly         Mon         12:15 PM - 1:45 PM         • 12/25/2023         Oct 16, 2023 - Feb 5, 2024         72           • 01/01/2024 <td< th=""><td><ul> <li>Prof. DrIng. Dietmar Drummer</li> <li>Prof. DrIng. Jörg Franke</li> <li>Prof. Dr. Nico Hanenkamp</li> </ul></td></td<>	<ul> <li>Prof. DrIng. Dietmar Drummer</li> <li>Prof. DrIng. Jörg Franke</li> <li>Prof. Dr. Nico Hanenkamp</li> </ul>				

## **Registration for Courses on "StudOn"**



Semester planning Basic data Parallel groups / c	dates Course catalog Modules and degree programs Documents		
Title	Production Technology 2 (PT 2 eng.)	Course type	Lecture
Short text	(PT2eng.)	Module frequency	Only in winter semester
Organizational unit	<ul> <li>Organizational unit</li> <li>TechFak   Elektromobilität-ACES   Master of Science (Verantwortlicher)</li> <li>Lehrstuhl für Ressourcen- und Energieeffiziente Produktionsmaschinen (Verantwortlicher)</li> <li>TechFak   International Production Engineering and Management   Austauschstudium Bachelor (Verantwortlicher)</li> <li>TechFak   International Production Engineering and Management   Bachelor of Science (Verantwortlicher)</li> </ul>	ECTS credits	2.5
		Semester hours per week	0.0
		Link to StudOn course (login)	Parallelgruppe 1: Production Technology 2 (PT 2 eng.)
		NEUER BLOGBEITRA	ECHSTUNDEN ZU STUDON: Ab dem 05.10.2023 finden wieder StudOn-Sprechstunden ohne Anmeldung statt. Alle Termine und Links finden Sie unter "Magazin > Schulungstermine". 6: "Wie logge kh mich als exmatrikulierte/-r Studierende/-r oder ehemalige/-r Beschäftigte/-r in StudOn ein?" unter "Support > StudOn-News"
			5. Technische Fakultät > 5.4 MB > REP > Lehrangebot: WS 23/24 > Production Technology 2 (PT 2 eng.)
			Production Technology 2 (PT 2 eng.)
		🕀 Verfüg	

Join the corresponding group in StudOn to get access to lecture notes, study material etc.

Please note: For some courses a password is required which you will receive in the first lecture!

FFENE O	NLINE-SPRECHSTUNDEN ZU STUDON: Ab dem 05.10.2023 finden wi	eder StudOn-Sprechstunden ohne Anmeldung statt. Alle Termine und Links finden Sie unter "Mag
EUER BL	DGBEITRAG: "Wie logge ich mich als exmatrikulierte/-r Studierende/-r	oder ehemalige/-r Beschäftigte/-r in StudOn ein?" unter "Support > StudOn-News"
	Magazin > 5. Technische Fakultät > 5.4 MB > REP > Lehrange	ebot: WS 23/24 > Production Technology 2 (PT 2 eng.)
legadn	Production Technology 2 (PT 2 er Vorlesung (PT2erg.), Englisch	ng.)
٥	Verfügbarkeit	
иррогт	Zugriff	Unbegrenzt - wenn online geschaltet
FAU Iortale	Aufnahmeverfahren	Zur Zeit ist keine Aufnahme möglich.
	Lehrveranstaltung	
	Titel	Production Technology 2 (PT 2 eng.) ((PT2eng.))
	Veranstaltungstyp	Vorlesung
	Beteiligte Einrichtungen	Lehrstuhl für Ressourcen- und Energieeffiziente Produktionsmaschinen (1514002100)
	Voraussetzungen	» Nicht erfüllt
	Parallelgruppe (Wintersemester 2023/24)	
	Titel	Production Technology 2 (PT 2 eng.) ((PT2eng.))
	Sprache	Englisch

## Social Media – Additional information and help





For more and detailed help on how to create your timetable in campo watch our YouTube video: <u>#meineFAU - Der Uni Vlog. Stundenplan erstellen -</u> <u>Campo für Anfänger\*innen</u>

 $\rightarrow$  English subtitles available



And join us on Instagram for regular inspiration and help at *@uni fau* 

## **Contact Information**



#### https://www.department.mb.tf.fau.de/studium/studien-service-center/

E-Mail: studium@mb.uni-erlangen.de



**Meike Herbert**, M.Sc. International Coordinator Meike.herbert@fau.de

#### **Please note:**

- We do our best to answer all requests carefully. Please understand that it can take a few days until you receive an answer.
- We kindly ask you to send **only one** request and refrain from sending "reminders".
- If it is really urgent, please indicate it in the subject line of your E-Mail: "Urgent: ...."
- We appreciate your understanding ©

# Questions regarding your studies at the Dep. of Mechanical Engineering?

We offer consultation hours online via zoom or in presence (with registration)!

https://www.department.mb.tf.fau.de/studium/studien-service-center/



Dipl.-Phys. **Patrick Schmitt** Study advisor patrick.schmitt@fau.de



Alexander Nasarow, M.Sc.

Study advisor alexander.nasarow@fau.de

## Summary – Your Start at FAU



- **Course selection:** it is often possible to choose courses from other Departments
- Registration period for examinations:
   20th November 10th December → please make sure to register for the exams
- Point of contact
- Study-service-Centre Mechanical Engineering: Learning Agreements; questions regarding your study programs or any academic aspects of your studies
- Team Mobility at FAU (<u>mobility@fau.de</u>): Organizational aspects regarding your exchange program
- "Regionales Rechenzentrum Erlangen (RRZE)": idM, assignment of SSO passwords, FAUMailbox/ personell messages,... for useful tips see also: <u>https://www.rrze.fau.de/files/2020/09/erstsemesterinfo\_englisch.pdf</u>





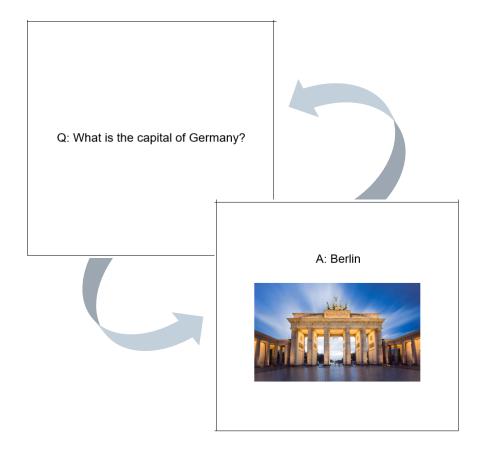
# **Questions?**

## Let's get to know each other...



- Each of you will receive a card containing either a question or an answer
- Now it is your turn to find the person who has the matching card!
- The first pairs returning the matching cards together can get a small gift ☺ (as long as stock lasts...)
- If you can't find your match until the end of this session, you can continue after the campus tour

Please return the cards when you are finished!





# Thank you for your attention!

Friedrich-Alexander-Universität Technische Fakultät



# Attachment

# Game: Get to know each other

# Questions and answers about Germany, Erlangen, FAU, student life, culture ...

