

# International Program in Engineering



## Thank you for your interest in the International Program in Engineering (IPE) at DHBW Mosbach, Germany

The DHBW Mosbach has two campuses: one in Mosbach and one in Bad Mergentheim.

We run a one-semester **International Program in Engineering** during the Spring semester (April - July).

- **Theory:** emphasis on Industry 4.0 & interactive lectures
- **Practical:** labs, company visits, team-building events

Each semester is a complete program.

The program is worth 30 ECTS, including credits for German language courses and intercultural communication classes.

Our focus is not just on your academic achievements, but also on developing your whole personality and soft skills, such as teamwork, organizational and interpersonal skills.



# Welcome to The International Program in Engineering (IPE)



**Prof. Dr.  
Andreas  
Schramm //**

Head of IPE

Responsibilities:

- Program content, courses & credits
- Lecturers



**Jenni  
Loudon //**

Administration

Responsibilities:

- Administration & organisation of IPE



**Verena  
Bauer //**

Administration

Responsibilities:

- Housing
- Excursions
- Budget

We, the IPE Team, organize your semester experience and support you before, during and after your IPE semester.

We are your point of contact from the moment of your nomination to when we issue your grade transcripts after the semester.

Your entire semester experience is organized for you.

On the following pages, you will find further information on the structure of the program and modules, the excursion program, housing and general costs.

You will study together with other international students as well as with German students from the DHBW Mosbach in this unique study experience.

## • How to apply

Your university coordinator must first nominate you. The nomination deadline is 1st December.

Then complete the application form by 15th December using our online [application form](#).

# Structure of the International Program in Engineering (IPE)

The following lectures are held during the IPE semester. Students are registered for all classes and should attend all lectures.

## • Modules

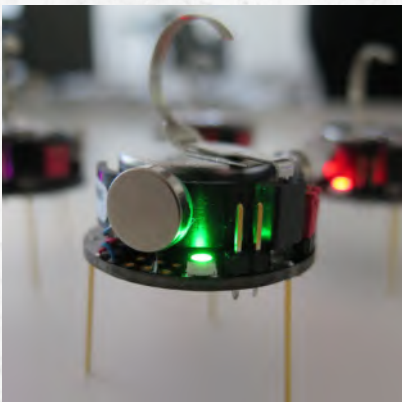
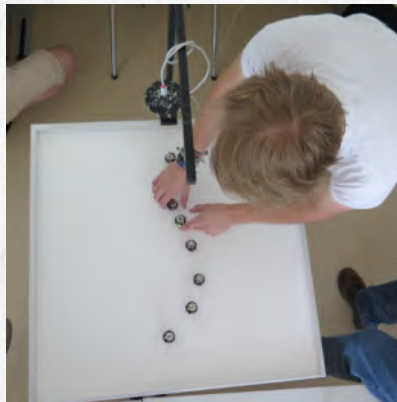
Module	Units	ECTS
A. Automation Systems Engineering	A1. Extended Concepts in Automation A2. Integrated Industry: including visit to Hannover Fair & Project A3. Simulative Engineering	5
B. Engineering Operations & Business Management	B1. Management of Industrial Processes B2. Project Management B3. International Business	5
C. Production and Information Management	C1. Business Information Systems in Production & Logistics C2. Advanced Concepts in Production Management C3. Interdisciplinary Seminar & Lab Practice	5
D. Embedded Systems	D1. Embedded Systems/IoT basics D2. Technical Information Management D3. Lab Practice	5
E. Student Research Project	Further information on next page	5
F. Social & Non-Technical Skills	F1. Intercultural Management F2. German Language & Culture (intensive & weekly course) F3. Excursion program	5
Total ECTS		30

The full module descriptions are available on our website.

# Structure of the International Program in Engineering (IPE)

## • Lab Practice

We have a number of labs at DHBW Mosbach which can be used during your studies, these include our e-mobility Lab, high performance computing Lab, MOSbot Lab - Internet of Things, and the Industry 4.0 Lab.



### Lab Industry 4.0

Our state-of-the-art Industry 4.0 factory lab allows students to experience end-to-end scenarios - from customer order through production and automation to product cost control.

It was built together with our Dual Partner training companies and is a "Living Lab" which is continually updated with the latest technology to create the "production of the future".

Models and simulations are used to replicate typical production processes and facilities.

Real information systems, such as MES and ERP, are used to network, analyse and manage production. Process data management uses systems such as SCADA, OPC, Big data storage and Mining & Analyse.

## • Student Research Project

The Student Research Project allows you to research and to apply your new-found knowledge to an engineering problem.

You will be assigned a mentor, who will agree your research topic and provide guidance as required.

Examples of student research topics include:

- urban farming controls
- an automatic drink cooler
- augmented reality app for maintenance visualization
- swarm intelligence projects
- robotics in production and logistics
- QR-Paper

The final week of the semester is reserved for the Student Research Project to allow you time to intensively work on your research and you will present your project and written research on the final day.



# Structure of the International Program in Engineering (IPE)

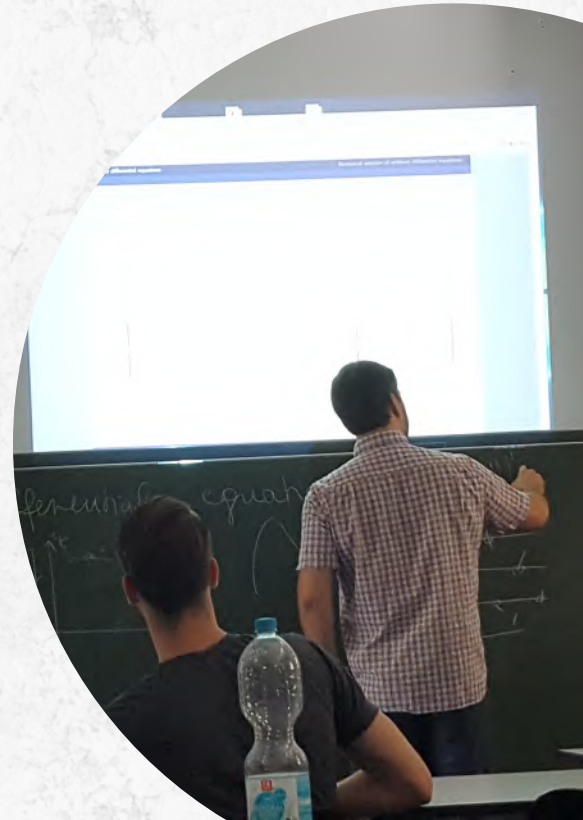
## • Classes, Exams & other information

Our Engineering courses begin in the second week of the semester.

All the courses are taught in English by faculty from around the world and are mostly organized in one or two-week modules.

Final exams will either be held directly after the modules or at a later date during the semester.

The program also includes special activities, such as excursions, which enhance and complete your education, allow you to form close bonds with your class, and, last but not least, are a lot of fun!



## • English Level

Ideally, you should have B2 (CEFR) level English to be able to follow lectures easily.

Previous knowledge of German is not required.

## • Orientation & Intercultural Experience

The semester begins with an Orientation Day.

The first week of this international semester is dedicated to the topic of intercultural communication, both inside and outside the classroom.

The focus will also be on establishing a strong bond and team spirit with all your fellow students.

## • German Language & Culture

You will study in small groups based on your prior level of German skills.

Prior knowledge of German is not needed to participate in the Program.

German lessons will be organized as an intensive course with further lessons during the semester.



# Structure of the International Program in Engineering (IPE)

## • Tutor Task Program

All the students are asked to become a Tutor or expert in a particular area.

You will then be responsible for certain tasks which develop your personal and organizational skills and allow you to make it YOUR program.

These tasks include organizing student events during the semester, being responsible for various tasks, and even running the social media presence of IPE.

## • Buddy Program

To get things started and to help you make some new friends before you arrive, we will nominate a Buddy for you: German students participating in the IPE, who are going to support and help with the challenges experienced while studying abroad when you are in Mosbach.

The idea of having a "buddy" is to ease your cross-cultural transition and to propel you into your first international experience.



## • Excursions & Events

An important part of your international experience during the semester will be the excursions and events.

There will be several excursions during your IPE semester and, due to Covid-19, these will be held regionally and mainly outdoors, such as geocaching, ebike tours, wine-tasting tour, canoeing games, and much more.

These excursions provide a great chance for you to get to know each other better, learn more about Germany and to form lifelong international friendships.

# Housing



As it is difficult to find short-rental student rooms in Mosbach, we have rented a house for you: our International Student Dormitory.

International students participating in IPB will live together in apartments, which are located within walking distance of the campus and town centre.

We offer single and shared rooms, and you will share bathrooms, kitchen and lounge areas.

Your room and apartment are fully furnished and bedding is also provided.

- **Room costs**

Room prices vary from 200€ to 400€ per month per month based on room size (*prices may be subject to change*). You will receive further details with your admission letter.

Monthly rent includes electricity, heating, water and Wifi charges.

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A deposit of one month's rent will be charged on arrival.

This deposit will be refunded to you after your departure if you leave your room and all the shared facilities (kitchen, bathrooms, shared living areas, etc) clean and with no damages - exactly the way you moved in.

If this is not the case, your deposit will be withheld to cover additional cleaning and repair costs.



# General Costs

Here is an overview of the costs to be expected:

Monthly Expenses	€
Rent	200-400€
Food (approx.)	200€
Photocopies / Books / etc.	15€
Other costs: Gym, travel, socializing	individual
Health Insurance	106€

One-off Expenses	€
Deposit (reimbursed at end of semester)	200-400€
Media Usage Fee	15€
Excursion Fee	100€
Student Registration & Service Fee (details during Orientation)	80€

## • Scholarships

A limited number of scholarships are available to non-EU students. Details about the scholarship application will be sent to you at the start of the semester.

## • Health Insurance

German public health insurance is mandatory for all students. EU residents are usually exempt but must obtain an exemption certificate from a German health insurance company.

Further details will be sent after admission to the program.





## In the area and beyond...

There's so much to do within a short distance of Mosbach that you'll never be bored.

Get a rail or Flixbus card to get discount fares and, with budget airlines flying from Stuttgart airport, you can easily travel throughout Germany and Europe on weekends.



Heidelberg castle and old town



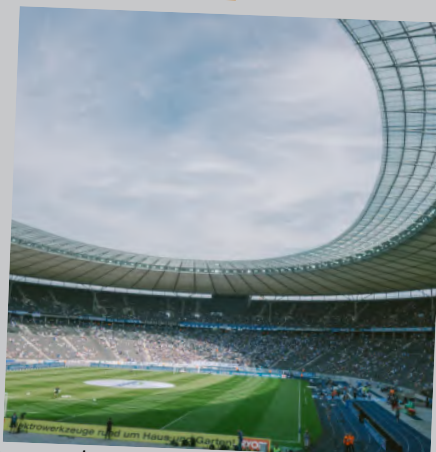
Stuttgart - the state capital



Würzburg with imposing residence



Explore the Neckar valley & castles



Top sports: soccer, ice hockey, handball



Audi, Mercedes & Porsche museums

**(Study x Excursions) + (New friends x travel) = a unique IPE semester**

## And finally....

### Find out more about the International Program Experience

Further details about IPE can be found on our [website](#).  
And also on our [facebook page](#).

If you are unsure what to expect from IPE, watch previous students from our International Program in Business give their feedback in our [IPB Film](#).



**If you have any questions, please don't hesitate to contact us.  
We look forward to welcoming you to DHBW Mosbach very soon!**