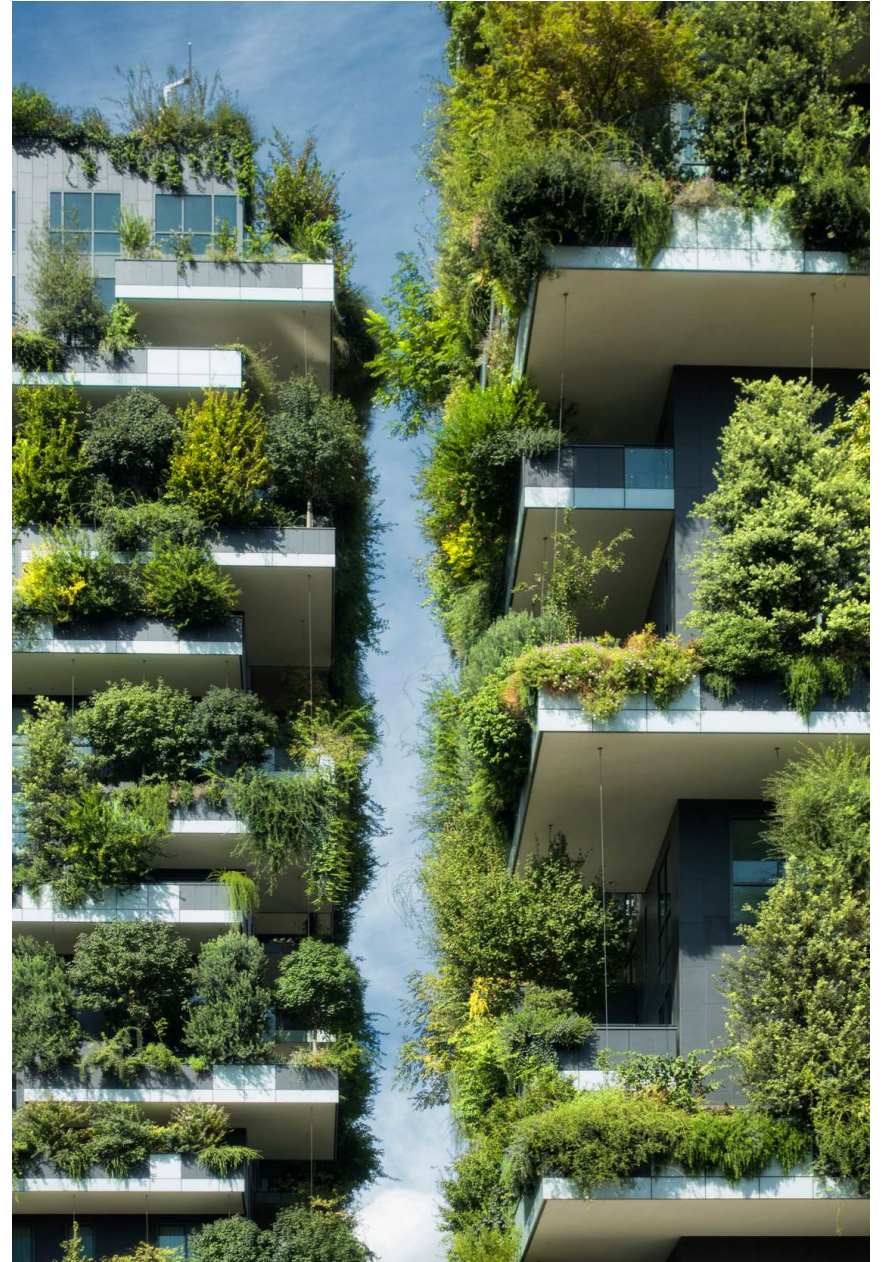




HOCHSCHULE  
ANSBACH

Masters

# Sustainable Building Systems



# Need to change the STATUS QUO



Use of Renewables  
by 2030 in HVAC\*

Only 1



4 out of 5 buildings are  
**NOT** sustainable

\*Goal of EU Fit for 55 package

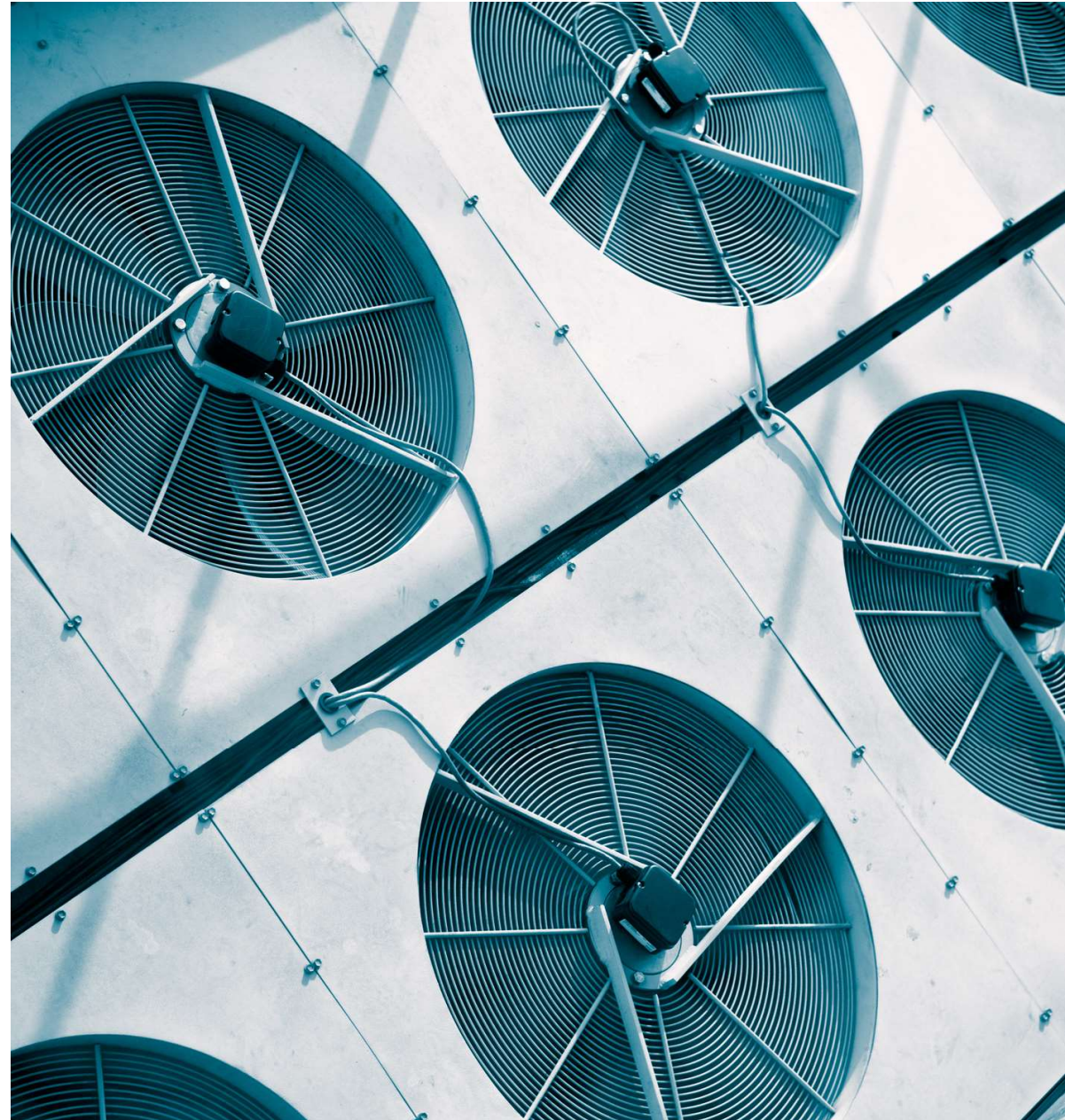
# Our Vision

"We cannot solve our problems with the same thinking we used when we created them." - Albert Einstein

Sustainability in buildings is not just a trend, it's the only way forward. The global commitment to offer sustainable and affordable built environments will include a transition towards **CO<sub>2</sub>-neutral solutions for both new and existing buildings**. This task is not only challenging but also requires lots of motivated people with expertise in the field of **building energy efficiency**.

With our advanced Masters course **Sustainable Building Systems**, you can not only be a part of this transition but also drive it with your expertise.

Sustainable  
Building Systems



# Sustainable Building Systems

**Sustainable, low-to-zero-emission buildings** are the need of the hour and governments across the globe are taking concrete measures to achieve climate neutrality in the building sector. You will not only focus on establishing sustainable and comfortable living environments but also deal with approaches to **improve energy efficiency**. This involves the study of related disciplines like building technology and services, as well as the design of **heating, ventilation, and air conditioning (HVAC) systems**. The ongoing energy crisis has increased awareness of the need to transform the way we **create, store, and use energy**, and buildings have been identified as one of the major focus areas that require innovative, fast & easy to implement solutions if we are to successfully reach the CO<sub>2</sub> reduction targets set by the UN.

## Degree

- Master of Engineering (M.Eng.)

## Duration

- 3 Semester

## Start of Study

- Winter semester, 1st October

## Study Location

- Feuchtwangen

## Language of Instruction

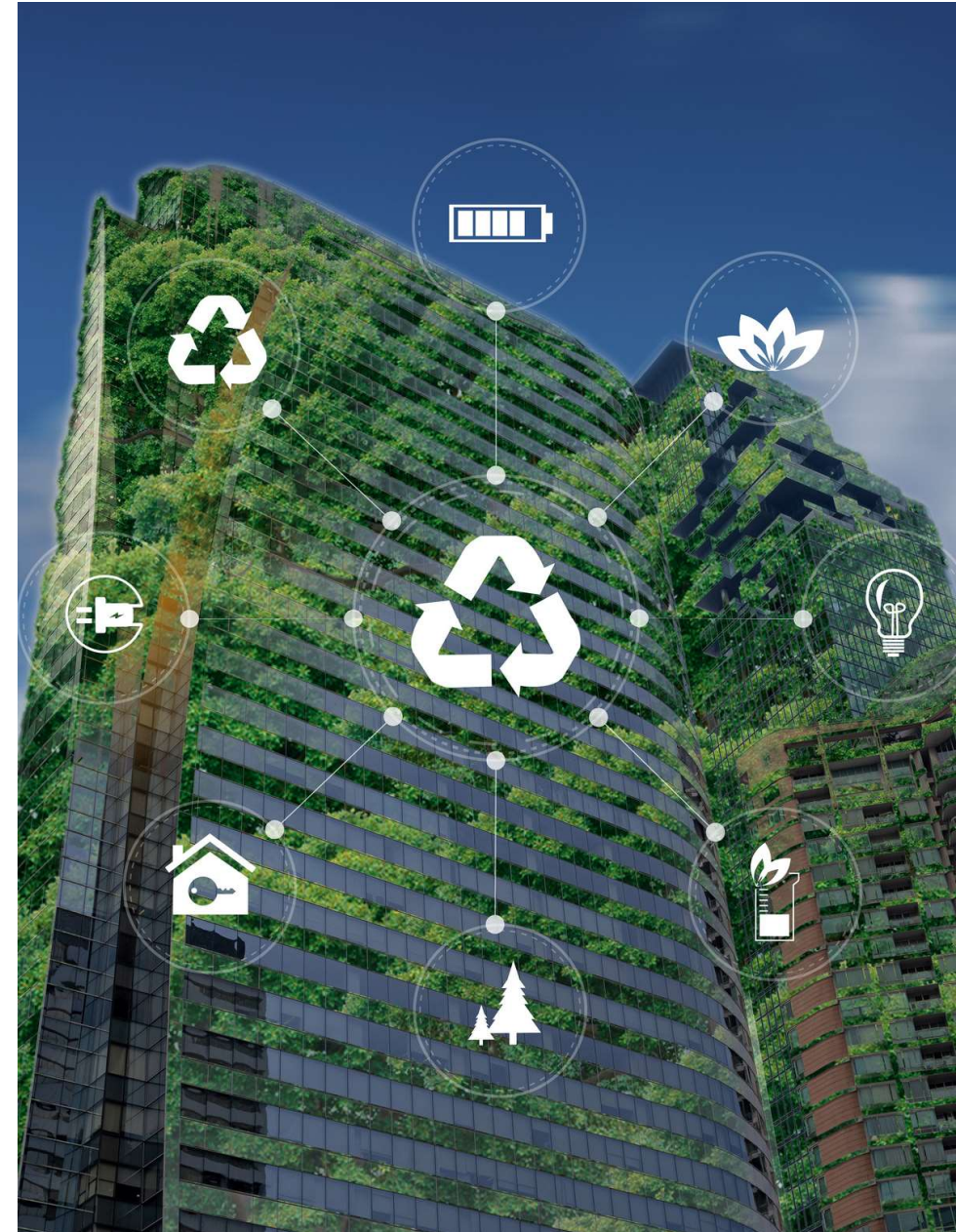
- English

## Dates

- Application period - 1st May – 31st May

Sustainable

Building Systems



# Learning Outcomes

Sustainable  
Building Systems



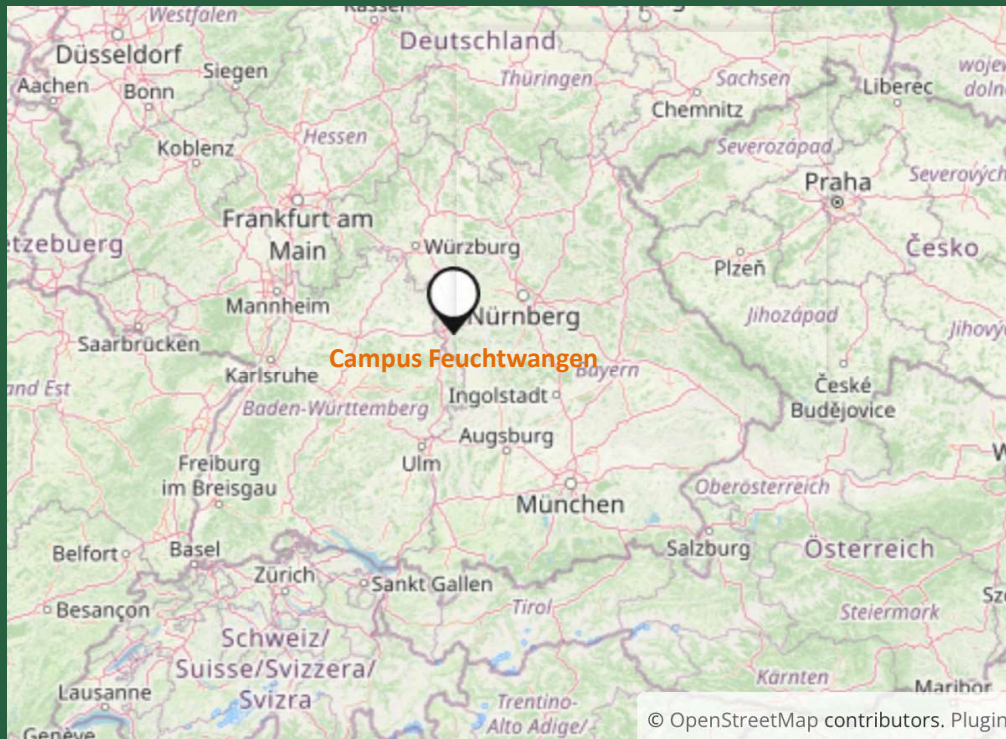
In this Masters program you will learn from experienced faculty members and industry specialists, which will give you practical and academic experience in innovative technologies for **building and industrial applications**. These include **energy generation and storage methods** such as photovoltaics, heat pumps, battery storage, seasonal heat storage, etc. to name a few. The emerging topic of **sector coupling** involves bringing together different renewable energy sources and using them as per demand. Every building needs a strong foundation. You'll deep dive into the fundamental subjects of heat transfer, energy conversion, electrical engineering and building physics, which will be the key to successful implementation of **future building technologies**.

# On Campus

At Campus Feuchtwangen it is all about sustainably restructuring our energy landscape from renewable energy generation to its application in building technology. The innovative building on Campus Feuchtwangen serves not only as living lab for renewable heating and cooling technologies but also has the necessary infrastructure for understanding the fundamentals of building technology. It is also home to the Smart Home Lab of Ansbach University of Applied Science as well as the Bavarian drone academy.



# Contact Us



## Campus Feuchtwangen

Ansbach University of Applied Sciences

An der Hochschule 1  
91555 Feuchtwangen

<https://www.campus-feuchtwangen.de/sbs>

## General student counselling

Phone: (0981) 4877 - 574

[studienberatung@hs-ansbach.de](mailto:studienberatung@hs-ansbach.de)

Information on office hours:

[www.hs-ansbach.de/studienberatung](http://www.hs-ansbach.de/studienberatung)

## Academic Advising and Programme Management

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