

Study Programme:

# Bachelor of Engineering Mechanical Engineering & Digital Technologies

Full-time  
on Campus  
in Germany

## Why study Bachelor of Engineering in Mechanical Engineering & Digital Technologies?

Mechanical engineers are the driving force of industrial progress who bring ideas and visions into reality. They develop and design machines and systems that influence and facilitate our lives. Having one of the world's leading automotive, manufacturing and pharmaceutical industries, Germany is the best study destination for creative and innovative future engineers with profound digital competency.

The FOM international undergraduate programme "Mechanical Engineering & Digital Technologies" is developed to meet the needs of the industry in Germany and worldwide.

In this programme, in addition to acquiring fundamental engineering knowledge, you will deal with digital technologies both in product development and production process extensively. This includes special applications in the area of industrial data management, such as simulation of production processes or the co-development of digital twins.

This programme qualifies you to take on responsibilities in the development of networked production, for example in mechanical and plant engineering, in automotive engineering, in chemical industry or in environmental technology. After completing the programme, you can work as an engineer in industries or quality management, help optimise production lines, establish resource-saving production methods, or help planning the digital factory of the future.



### German Engineering on Campus and Online

This degree programme provides you with the flexibility to study first on campus for two years in Essen, Germany, before expanding your theoretical and practical horizons in the third year either further on campus or online worldwide.

Germany, the world's 4th largest economy, birthplace of Industry 4.0. Essen, centre of the Ruhr Region, heart of the eminent German industry with distinguished industrial tradition, pioneering visions and a vibrant modern economy. With the many powerful residing multinationals, strong SMEs and thriving start-ups, Essen is among the most popular destinations for practice-oriented studies leading to ample career opportunities. As European Green Capital, Essen offers countless recreation possibilities accompanied by plenty of cultural highlights. Both on campus and online, you will get the spirit of German engineering and experience how theories can be applied in best practice.



### FOM University

FOM University was founded in 1991 at the initiative of the non-profit "Stiftung BildungsCentrum der Wirtschaft" (Foundation for the Centre of Education for Trade and Industry). With more than 50,000 students on 34 campuses, FOM is one of the largest universities in Europe. Focus of the university is to provide students with practice-oriented higher education to promote knowledge transfer between the university and business. FOM works extensively with German companies of different scales and major international corporations. Its integral connections with over 10,000 cooperation partners across all sectors of the economy offer exclusive study opportunities to combine academic studies and professional improvement through unique learning experience. Parallel to the traditional on-campus study format, FOM expands its digital landscape through the innovative "Digital Live Study", offering worldwide accessible interactive lectures broadcast live from the state-of-the-art, multi-functional high-tech studios to provide students with maximum flexibility. FOM is where the transfer between theory and practice takes place – in both traditional and digital ways.

### KEY FACTS

#### Language

English

#### Time model

Full-time (daytime)

#### Duration

6 semesters including thesis

#### Place of study

##### Option 1:

Semesters 1 to 6: on campus in Essen, Germany

##### Option 2:

Semesters 1 to 4: on campus in Essen, Germany  
Semesters 5 to 6: online worldwide

#### Credit points

180 ECTS

#### Fees

Registration fee: 1,580 €, Tuition fee: 23,750 €,  
Examination fee: 500 €, **Total cost: 25,830 €**

#### Degree

Bachelor of Engineering (B.Eng.)

#### Admission requirements

- University entrance qualification
- English language proficiency B2

### CONTACT

**For questions and further information,  
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