

Full time

Study Programme:

# Master of Science Industry 4.0 & Management

## Why study Master of Science Industry 4.0 & Management?

The economy is becoming increasingly digital and networked. The intelligent linking of IT and business management systems enables a more flexible, individual, and efficient production as well as an optimization of the entire value chain. The goal of a more flexible production through networking goes hand in hand with ever shorter product cycles, improved business models and a digitalized value-added network.

The core elements of an Industry 4.0 are automation, standardization, digitization, and networking as well as the merging of hardware and software.

In order to implement "Industry 4.0", companies are dependent on specialized professionals who have both business management expertise and comprehensive skills in dealing with the key technologies of Industry 4.0. With "Industry 4.0 & Management", FOM has developed a future-oriented Master's programme whose contents are specifically geared

to these requirements. You will acquire both business expertise and management skills as well as a sound specialist knowledge of the digital transformation of classic, industrial processes. In this way, you will prepare yourself for a wide range of possible applications in the context of Industry 4.0 and qualify for demanding positions and management tasks in nationally and internationally operating companies across all industries.



### Studying in Essen, Germany

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 engineering tradition, pioneering industrial visions and a modern, vibrant economy. With the many powerful residing multinationals, strong SMEs and thriving start-ups, Essen is among the most popular destinations for practice-oriented study leading to ample career opportunities.

As one of the European Green Capitals, the city offers countless recreation possibilities accompanied by plenty of cultural highlights: the renowned Folkwang Museum, the Krupp Residence Villa Hügel, UNESCO World Heritage Zollverein Coal Mine Complex, Red Dot Museum, theatres and concert halls. Open, vibrant, and versatile – Essen is waiting for you.



### FOM University

FOM University was founded in 1991 at the initiative of the non-profit “Stiftung für internationale Bildung und Wissenschaft” (Foundation for International Education and Science). With more than 50,000 students on 34 campuses in Germany, 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, multifunctional 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

4 semesters including thesis

#### Place of study

Essen, Germany

#### Credit Points

120 ECTS

#### Fees

Registration fee: 1.580 €, Tuition fee: 20.570 €, Examination fee: 350 €, **Total cost: 22.500 €**

#### Degree

Master of Science (M.Sc.)

#### Admission requirements

- University degree Bachelor with at least 60 credit points in (business) computer science or (business) engineering or with at least 60 credit points from related modules (e.g. mathematics, statistics) or with successful completion of an admission examination
- English language proficiency B2

### CONTACT



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