

ESSLINGEN

AN IDEAL PLACE TO STUDY



The city of **Esslingen** has a population of over 93,000 inhabitants, and lies nestled in the vineyards overlooking the Neckar valley. Stuttgart, the capital city of Baden-Wuerttemberg, is only 20 kilometres away.

Near the university, there are many hiking paths through the vineyards and forests that can be explored on foot, by bicycle or segway. Within the city, there are many parks, the city castle, waterways, street cafés and theatres. In the winter, the old city centre lights up with a Christmas market; in the summer, live music, open-air cinemas and artisan's markets make Esslingen come to life. Esslingen's historical city centre, with its half-timbered houses, its cafés and its diverse cultural life, is an ideal surrounding for a successful study time.

Esslingen has a history reaching back over 1,200 years, a history in which tradition and progress have gone hand in hand. Since its industrialisation, Esslingen has been a major centre for engineering education, and it is this mixture of technical prowess and cultural tradition that makes Esslingen an ideal place to study.

HOW TO APPLY

Esslingen University of Applied Sciences
Mechanical and Systems Engineering
Flandernstrasse 101
73732 Esslingen
GERMANY
Phone +49(0)711 397-44 66
mengddm@hs-esslingen.de

Admission Requirements

- | Bachelor of Automotive Engineering, Mechanical Engineering or equivalent
- | English language test
- | Please see our website for details

Application deadline

31 March

APPLY NOW!

Design: www.weiser-design.de - Oktober 2021

DESIGN AND DEVELOPMENT IN AUTOMOTIVE AND MECHANICAL ENGINEERING



WWW.HS-ESSLINGEN.DE/BEWERBUNG



Master of Engineering

M

DESIGN AND DEVELOPMENT IN AUTOMOTIVE AND MECHANICAL ENGINEERING

Build your networked knowledge in engineering design and development

The Design and Development in Automotive and Mechanical Engineering program (DDM) is focused on the design and development of complex engineering systems.

It aims to prepare students for a challenging job in the core areas of design and development within the globalized mechanical engineering and automotive engineering industry. Strong focus is placed on the ability to communicate confidently in the international environment of modern industry.

Graduates of the DDM program usually aim to work in the following areas: the automotive industry and its component suppliers; manufacturer of machines and equipment, the mechanical engineering industry; the process engineering industry; and engineering consultancy.

STUDY IN THE HEART OF THE EUROPEAN AUTOMOTIVE INDUSTRY



As the university is located in the very heart of the automotive industry, students benefit greatly from the close links to the technological and industrial leaders situated in the area, such as **Bosch, Daimler, Audi, Festo, Porsche, Mahle Behr, and Trumpf**. These are especially important when it comes to master's thesis placement.

Learn to work in an interdisciplinary and intercultural environment

Some DDM students have the possibility to work on interdisciplinary projects commissioned by the industry. Scientific work and the application of innovative engineering methods are taught with team projects. Also social competence and soft skills are on the curriculum.

MASTER OF ENGINEERING DESIGN AND DEVELOPMENT IN AUTOMOTIVE AND MECHANICAL ENGINEERING

Master's Thesis

3rd
SEM

Soft Skills for Engineers

Design for Manufacturing
Production-Oriented Product Design/
Product Life Cycle Management
with Lab

Vibrations and Acoustics 2
Vibration, NVH in Automotive
Systems/Lab Computer-Aided
Vibration Analysis (CAT)

Design and Development 2
Advanced CAD, Design of Experiments

Advanced Materials Technology
Advanced Engineering Materials, Sur-
face Technology, Composite Materials

Project Work

2nd
SEM

Advanced Strength of Materials
Lightweight Design, Advanced Finite
Element Method

Dynamics
Multi Body Systems, Simulation of
Multi Body-Systems

Integrity of Structures
Integrity of Structures, Failure Analysis

Vibration and Acoustics 1
Vibration and Acoustics Measurement/Lab

Design and Development 1
Design Methodology, Ecologic and
Economic Design, Reliability

Numerical Methods in CAE
Numerical Mathematics, CAE Methods
and Algorithms

1st
SEM

MASTER OF ENGINEERING

- | Build your networked knowledge in engineering design and development
- | Study in the heart of the European automotive and mechanical engineering industry
- | Learn to work in an interdisciplinary and intercultural environment
- | Study in English - live in Germany