

PRACTICAL AND INTERNATIONAL

“Internationality” is a very important feature at Esslingen University. We offer the opportunity for students from diverse cultural backgrounds to study, work and live together. This is made possible partly through active contact with partner universities in many countries throughout the world. The intercultural cooperation on project work is also of added value to master’s students.

Esslingen University maintains regular contact with many international companies. This is important when it comes to the implementation of theory during the practical semester. The Esslingen University master courses are regularly accredited by renowned associations such as the FIBAA and ASIIN.

ESSLINGEN – AN IDEAL PLACE TO STUDY

With a population of over 90,000 inhabitants, the town of Esslingen is situated in the Neckar valley and surrounded by picturesque vineyards. Only 20 kilometres away is Stuttgart the county of Baden-Wuerttemberg’s capital.

Esslingen’s history dates back over 1,200 years but the town always had it’s sights on the future. Since the industrialisation of Esslingen, the town has been an attractive area for business and industry and companies like Daimler, Eberspächer and Festo have settled here.

The historical old town with its many half-timbered houses, numerous bars and restaurants and a diversely cultural scene, is the ideal background for promisingly successful years of study.

WHERE AND HOW TO APPLY?

Hochschule Esslingen
University of Applied Sciences
Graduate School
Flandernstr. 101
73732 Esslingen
GERMANY
Phone: +49 (0) 714 397-44 74
Fax: +49 (0) 714 397-44 77, -44 63
meng@hs-esslingen.de
www.graduate-school.de


ADMISSION REQUIREMENTS

- Bachelor of Automotive Engineering, Mechanical Eng. or equivalent
- Two confidential letters of recommendation
- Letter of motivation (handwritten)
- English language Test
- Additional requirements please refer to website
- Tuition fees: 500 € per semester

Application deadline: March 31st

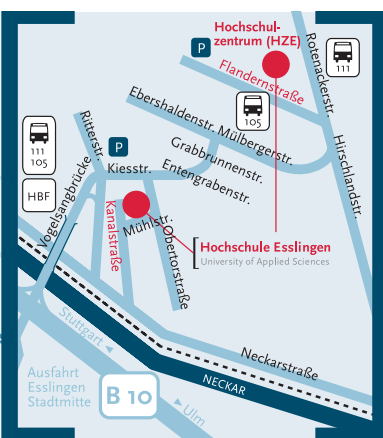
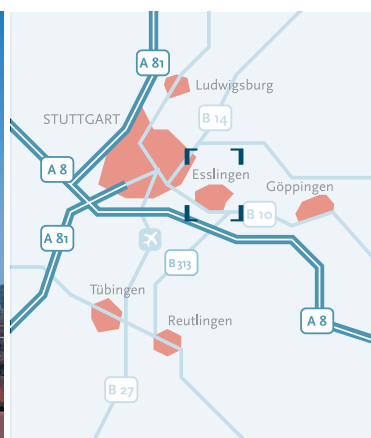
www.hs-esslingen.de

accredited by



**DESIGN AND DEVELOPMENT IN
AUTOMOTIVE AND
MECHANICAL ENGINEERING**
Master of Engineering

Design: www.jungkommunikation.de - January 2008



Graduate School

GS

DESIGN AND DEVELOPMENT IN AUTOMOTIVE AND MECHANICAL ENGINEERING DDM

Master of Engineering

- › Study in the heart of the European automotive and mechanical engineering industry
- › Achieve a networked knowledge in the core areas of engineering design and development
- › Learn through interdisciplinary and intercultural projects
- › Study in English – live in Germany

The Esslingen Master of Engineering in Design and Development in Automotive and Mechanical Engineering (DDM) is focused on supplying advanced knowledge and abilities in the area of design and development of complex engineering systems. It aims at enabling the students to successfully deal with the various facets of modern, simultaneous engineering development projects. Besides advanced technical/scientific lectures and labs, cross-cultural, interdisciplinary student projects are part of the programme. Through these, students are given the opportunity to share not only their specialized knowledge but also their cultural backgrounds in real-life working scenarios.



Modern simultaneous engineering demands specialist qualifications and knowledge plus the ability and willingness to work in an interdisciplinary and international team. The aim of the course is to communicate these skills.

INTERESTING AND INNOVATIVE

The Master of Engineering – DDM – is a program that 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.

The core modules of the program will include lectures on advanced strength of materials, materials technology, dynamic systems, design for manufacturing, aero and fluid dynamics plus several complementary subjects. Graduates of the program shall be qualified to work e.g. in the following areas: Automotive industry and its component suppliers, mechanical engineering industry, process engineering industry and engineering consultancy.

Core competences and qualifications to be gained are a high problem-solving competence based on networked knowledge in the core and intersection areas of design, development, simulation and production technology as well as the ability to confidently communicate and act in the international/intercultural environment of modern industry.

STUDY IN THE CENTER OF EUROPEAN MECHANICAL/AUTOMOTIVE ENGINEERING INDUSTRY

Hochschule Esslingen has a long tradition in educating mechanical and automotive engineers. Founded in 1914 as Royal College for Mechanical Engineering, the university has always taken advantage of its location in one of the major centres of European industry and therefore is closely linked to the nearby companies, including a lot of the global technological leaders, both in the area of mechanical and automotive engineering, such as Daimler, BOSCH, FESTO, Porsche, Index and many others.

Faculty and Teaching Philosophy

The faculty teaching consists of a mixture of professors from the Esslingen University of Applied Sciences as well as experts from our corporate partners. Because of our strong commitment to provide our students hands-on knowledge, many of our courses are team-oriented including case studies, company vane implemented. Through these, students are given the opportunity to share not only their specialized knowledge but also their cultural backgrounds, in real-life working scenarios.

ADVANCED ENGINEERING KNOWLEDGE AS REQUIRED BY INDUSTRY

The Master of Engineering Study Program

3.	MASTER THESIS Scientific Work, Documentation, Defence SOFTSKILLS FOR ENGINEERS Softskills for Engineers
2.	DESIGN FOR MANUFACTURING: Production-oriented Product Design Product Life Cycle Management with laboratory DYNAMICS: Multi Body Systems Simulation of Multi Body Systems VIBRATIONS AND ACOUSTICS: Vibrations NVH in Automotive Systems Laboratory Computer-Aided Vibration Analysis (CAT) AERO AND FLUID DYNAMICS: Advanced Fluid Dynamics; Heat Transfer; Computational Fluid Dynamics TEAM PROJECT
1.	ADVANCED STRENGTH OF MATERIALS: Light Weight Design Advanced Finite Element Method ADVANCED MATERIALS TECHNOLOGY: System Design; Advanced Engineering Materials; Surface Technology; Case Studies INTEGRITY OF STRUCTURES: Integrity of Structures; Failure Analysis MEASUREMENT AND TESTING TECHNIQUES Vibration and Acoustics Measurement Laboratory Vibration and Acoustics Measurement SAFETY AND RELIABILITY: Reliability; Design of Experiments; Active an Passive Safety of Cars
	LANGUAGE AND CULTURE PROGRAM IN SEPTEMBER Additionally, German class is offered parallel to the course of study afterwards.

Total Duration: 3 Semesters (18 months)