



Industrial Engineering (Mechanical Engineering with Business) - Master of Science -

DESCRIPTION AND OBJECTIVES

Typical industrial sectors where graduates of a Master's degree in Industrial Engineering (Mechanical Engineering with Business) are in demand are automotive engineering and mechanical and plant engineering (cf. VDMA). But beyond this, the mixture of technology-related study modules with non-technology contents offer a basis for other attractive working areas. A general feature industrial engineering as a professional area is the linkage of technological, economic and social tasks.

JOB PROSPECTS AND WORKING AREAS

Industrial Engineering will continue to offer excellent vocational chances due to the good prognosis for demand and in view of the expected increase in importance of thinking and acting in cross-disciplinary categories and in an international context. Our Master's degree offer will enable our graduates or assume demanding tasks in the following areas:

Customer projects
are the main success factor for many companies.

Plant engineering
meet the challenge of processing complex sets of tasks.

Organisation of production
create methods of on-time delivery and increase your company's efficiency.

Business organisation
develop innovation processes, from the idea to the business plan.

Graduation from this course will provide the qualification for successfully starting your career by enabling you to assume leadership of market or business-oriented projects. Moreover, it will offer entry in the higher service of state institutions and entitle you to gain a PhD-degree.

COURSE STRUCTURE

This Master's degree course is designed as a full-time course which comprises three semesters including the Master thesis and is subdivided into fourteen study modules. Semesters one and two contain two modules each covering "special areas of mechanical engineering", and three so-called "integrative modules" dealing with technological and economic issues at the same time. Semester one also contains a module in intercultural management. In the second semester problems and issues relevant for an engineer's practical work are being dealt with and solutions for them are sought in individual students' projects.

The third and final semester consists of two block modules on communication and interpersonal competences and the writing of the Master thesis. By successfully completing the thesis you will demonstrate your capacity to solve a complex real-life problem by scientific and systematic methods and within a given deadline.

This course can also be studied in part-time in which case the normal study duration is six semesters. The weekly workload is about half of the workload of the full-time model. It is possible to change into the full-time model during studies.

Figure: please see next page.

COURSE STRUCTURE

Se- mester 3	Additional competences		Master Thesis			
	Visualisation and Moderation	Methods for Your Personal Development				
2	Management of Project Business	Customer-Provider Relationships	Business Organisation	Plant Organisation Project	Selection of Materials	Concretion of Industry 4.0
1	Efficient Production Organisation	Intercultural Management	Information Retrieval and Knowledge Management	Costing of Processes, Projects and Products	Machine Structures	Technologies of Drives

BEGINNING OF THE COURSE

This Master's degree course can be started either in the winter or the summer semester of each academic year.

APPLICATION

The application deadline for the winter semester is 15 July and the deadline for the summer semester is 15 January. For more information on the current application procedure please check our website www.hs-kempten.de.

ADMISSION

The admission requirement for the Master's degree course Industrial Engineering (Mechanical Engineering with Business) is a first degree (German Diplom or Bachelor's degree) in Industrial Engineering or a comparable course of at least 210 ECTS-credits, and a (German) average grade of 2.2 or better (wording: good) or an equivalent degree from abroad.

CONTACT

Course Coordinator

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IMPORTANT LINKS

(Information in English on our website)

www.hs-kempten.de > INTERNATIONAL > click English flag (in the top left-hand corner)

[Information for international exchange students](#)
(> INTERNATIONAL > EXCHANGE STUDENTS / INCOMING)

[Study programmes – short description in English](#)
(> INTERNATIONAL > DOWNLOADS > Study Programmes)

[Guests and Visitors at Kempten University](#)
(> INTERNATIONAL > GUESTS AND VISITORS)

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PLEASE NOTE that, although this description is written in English, the study course is taught in German.