

MSc Digital Industrial Management and Engineering



Key facts

Admission requirements	Bachelor of Science in Mechanical Engineering, Operations Management, Process Technology, Production Technology or in comparable engineering areas (210 ECTS); English (B2)
Application deadline	January 15th for the summer semester July 15th for the winter semester
Start of programme	Based on module 3 (Elective compulsories), summer or winter semester
Duration of course	4 semesters incl. at least 1 semester abroad (mandatory)
Semester abroad	2nd semester, modules 2 and 3 as well as Joint Master Thesis and Joint Public Scientific Paper
Number of places	5 (summer and winter semester) at Stellenbosch University, South Africa or 3 at Purdue University, USA (winter semester only)
Degree	MSc Digital Industrial Management and Engineering der Hochschule Reutlingen plus <ul style="list-style-type: none">• MEng Engineering Management of Stellenbosch University (Modul 3A) (admission always in summer and winter semester) or• MSc Engineering Technology of Purdue University (Modul 3B) (admission always in winter semester)
Costs	www.esb-business-school.de/dime-costs



Research-oriented • Innovative • International

Would you like to do a master's course based on the latest research fields and findings in Digital Industrial Management and Engineering?

Would you like to be perfectly prepared for interface positions between research, development and product realisation in an international research environment?

Would you like to receive a joint master's degree at Reutlingen University with a renowned partner university and subsequently pave the way for a possible doctorate?

Then apply for the Master MSc Digital Industrial Management and Engineering programme at ESB Business School:

A unique four-semester international research master's programme with the focus on applied research and your own personal research interests, including diverse face-to-face classes.

Contact

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ESB Business School
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www.esb-business-school.com

Date: December 2023



Hochschule Reutlingen
Reutlingen University



Programme structure

In the course of your studies, you will work on the latest research topics in Digital Industrial Management and Engineering. This is made possible by close cooperation with your supervising professor and your admission as an active member to the respective specialised research group. The research module includes lectures that will help you develop consistent theoretical knowledge, combined with application-oriented knowledge in your respective research field such as Digital Supply Chain and Management and Controlling, Information and Communication Technologies and Systems, Engineering Management and Technologies as well as Smart Factory and Logistics in the context of Industry 4.0 (digitisation of the manufacturing industry).

You will conclude your four-semester research project with your Joint Master's Thesis, a publication and a public colloquium. You will then be well prepared for the future challenges in research and development facing industry and science.

4 th semester	
Modul 5 - Joint Scientific Paper Special Topics of Digitization	Joint Master Thesis Thesis Colloquium
	Research Colloquiums 4 Research Seminar 4
3 rd semester	
Modul 4 Digital Supply Chain	Research Sub Project 3 Learning Factory Demo Research Colloquiums 3 Research Seminar 3
2 nd semester	
Modul 3 - Elective compulsories: A - Engineering Management B - Engineering Technology	Research Sub Project 2 Research Colloquiums 2 Research Seminar 2
1 st semester	
Modul 2 - Digital Factory & Logistics Modul 1 - Research Methods, Planning and Control	Research Sub Project 1 Research Colloquiums 1 Research Seminar 1 Literature Analysis

ESB Business School

International Partner University

Excellent research • Excellent education

You will develop skills to give more in-depth consideration to scientific challenges and to developing solutions. You will learn to present yourself and to critically examine research results. You will be prepared to take responsibility for research and development projects and their results. You will learn to understand, work on and present complex research topics, also to those unfamiliar with the subject. You will work with a strong international focus and assert yourself in the work environment of different cultures.

Career opportunities • Current topics

Graduates of the degree programme have skills in digitisation and engineering management as well as soft skills such as the ability to work in a team, intercultural skills, (managerial) responsibility and professional competence. Corresponding with the selected specialisation, they will have up-to-date and interdisciplinary knowledge of Digital Industrial Management and Digital Industrial Engineering.

You will be especially qualified for interdisciplinary research and development tasks at the interface between business and technology. You will be able to plan, develop and validate solutions holistically for topics from the environment of digitisation.

The applications of graduates are diverse, within research and development in the area of:

- Smart Factory and logistics
- Digital global logistics system design
- Design of international production networks
- Business and production process optimization
- Management of international research and development projects