

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)
Application deadline	15th January
Start of programme	Summer 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 per year of study with the first international partner, Stellenbosch University
Degree	Master of Science (MSc) in Digital Industrial Management and Engineering from Reutlingen University and Master of Engineering (MEng) in Engineering Management from Stellenbosch University
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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www.esb-business-school.com

Date: May 2017



Hochschule Reutlingen
Reutlingen University



Programme structure

During the research modules 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 in Management Theory, Supply Chain Management, Information and Communication Technologies and Systems as well as Smart Factory and Logistics in connection with Industrie 4.0 (digitisation of the manufacturing industry). You will develop consistent theoretical knowledge, combined with application-oriented knowledge in your respective research field.

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	
Special Topics of Digitalisation	Thesis Colloquium
Joint Scientific Paper	Research Colloquiums 4 Research Seminar 4
3 rd semester	
Module 5 Digital Factory & Logistics Module 4 Digital Supply Chain	Research Sub Project 3 Research Colloquiums 3 Research Seminar 3
2 nd semester	
Module 3 Technology Management Module 2 Analytics & Synthesis	Research Sub Project 2 Research Colloquiums 2 Research Seminar 2
1 st semester	
Module 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, you 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 research MSc Digital Industrial Management and Engineering is the springboard for a future in research and development in industry or in research institutes or for a doctorate on the topic of digitisation in industry:

- Digital, global logistics system planning
- Smart Factory and logistics
- Design of international production networks
- Business and production process improvement
- International management

