M.Eng. Master of Integrated Design (MID)\
Detmold School of Architecture and Interior Architecture

Profile \ A full-time Master's degree with two possible specialisations

The Master of Engineering in Integrated Design (MID) is offered as a full-time course in the specialisations Computational Design and Facade Design. You will apply only for one of these.

Globalisation in general and the construction industry in particular have brought about new demands on buildings and construction projects, new demands that also take into account local conditions. Planning, too, is changing in line with the new requirements. Moreover, digital technology has also effected lasting changes to the building industry, from the planning and production stage right through to execution, and job profiles are getting more sophisticated accordingly. The Master programme therefore teaches in particular theoretical and practice-oriented skills of digital analysis-, design-, planning- and production methods, in addition to the traditional design and planning methods, and gives a detailed overview of the latest technological developments. The programme also includes operative aspects of information technology, new developments in building materials and scientific work.

Interaction/Cooperation with external partners and international networks: The programme focuses on qualifying engineers for interdisciplinary, international and to a growing extent digitally supported jobs. Special emphasis is laid on the cooperation between university and external partners, to links to other universities, planning offices, the construction industry and to software manufacturers. The standard study period is four semesters. The specialisations Facade Design and Computational Design are taught in English.

Master's degree \ Internationally recognized

Students graduating from this master's degree course will earn the "Master of Engineering (M.Eng.)" degree, which is internationally recognized. The degree qualifies for a position in the senior public service.

Job prospects \ From planning offices to research institutes

The MID qualifies graduates for positions in the private commercial sector as well as for the public sector. Job sectors include in particular architectural offices, engineering and planning offices as well as the construction industry, research institutes and universities. Other possibilities are also in specific technological fields, such as studies in software application and simulation technology, the research in new manufacturing methods, of construction or material innovation; these areas are covered in particular in the specialised modules with changing themes and best-practice examples.

Applications \ For deadline please check website

Admission requirements:
\- University entrance qualification
\- Bachelor or Diploma degree, in a course with substantial scientific or engineering content (e.g. Architectural Design, Architectural Engineering, Interior Design, Product Design, Civil Engineering, Industrial Engineering, Informatics) with a focus on building, interior, structural or facade planning and/or design with a minimum of 6 semesters (180 CR)
\- recommended: a three months practical training or internship in the professional field of architecture, building, interior, structural and/or facade design or planning.
\- Portfolio
\- motivational letter
\- possibly a selection interview (probably in June/July)
\- proven knowledge of English

Admission procedure:
\- The programme commences with the winter semester.
\- Applications with the necessary documents in English or German from students of *non*-EU countries have to be submitted by: probably end of March. Applications from students of EU-countries have to be submitted by: probably end of June, please check www.m-i-a-d.de (programs)
\- Non EU-applicants please apply at: www.uni-assist.de/service-portal.html. Find the application form using the search engine: Master; Lemgo, Technische Hochschule Ostwestfalen-Lippe (TH OWL).
\- As EU-applicant please send your application to TH OWL, Dekanat FB 1, Emilienstr. 45, D-32756 Detmold, Tel. +49 (0) 5231-769 6052.

Contact \ Detmold School of Architecture and Interior Architecture \ Emilienstr. 45, 32756 Detmold, Germany \ www.th-owl.de/design\ www.m-i-a-d.de

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Open Day with student counselling \ please check our website www.th-owl.de/design

Status as of: 01.04.2022

Curriculum \ Specialisation Facade Design

Module Compulsory modules/Compulsory subjects	Reference	SWS	CR	1 L	1 S	2 L	2 S	3 L	3 S	4 L	4 S
Core Modules											
Digital Tools and Methods 1	MID C 1	4	6	2	2						
Construction and Dimensioning	MID C 2	4	6	2	2						
Digital Tools and Methods 2	MID C 3	4	6			2	2				
Theory and Scientific Methods	MID C 4	4	6			2	2				
Conference and Communication	MID C 5	1	6							1	
Project Modules											
Facade Design and Construction	MID P 4	5	12	1	4						
Integrated Building Facade Design	MID P 5	5	12			1	4				
Contextual Facade Design	MID P 6	5	12					1	4		
Specialised Modules											
Climate and Comfort	MID S 4	4	6	2	2						
Planning, Detailling and Production	MID S 5	4	6			2	2				
Materials, Surfaces and Safety	MID S 6	4	6					2	2		
Elective Modules											
Elective from catalogue	MID E 2-8	4	6					1	3		
Master thesis, presentation and colloquium	MID T		30							x	
Sum SWS		48									
Sum CR			120								

L=Lecture S=Seminar CR=Credits SWS=Semester weekly hours WPF=Compulsory elective subject

Curriculum \ Specialisation Computational Design

Module Compulsory modules/Compulsory subjects	Reference	SWS	CR	1 L	1 S	2 L	2 S	3 L	3 S	4 L	4 S
Core Modules											
Digital Tools and Methods 1	MID C 1	4	6	2	2						
Construction and Dimensioning	MID C 2	4	6	2	2						
Digital Tools and Methods 2	MID C 3	4	6			2	2				
Theory and Scientific Methods	MID C 4	4	6			2	2				
Conference and Communication	MID C 5	1	6							1	
Project Modules											
Computational Design	MID P 7	5	12	1	4						
Integrated Computational Building Design	MID P 8	5	12			1	4				
Contextual Computational Design	MID P 9	5	12					1	4		
Specialised Modules											
Programming and Simulation	MID S 7	4	6	2	2						
Digital Fabrication	MID S 8	4	6			2	2				
Computational Optimisation	MID S 9	4	6					2	2		
Elective Modules											
Elective from catalogue	MID E 2-8	4	6					1	3		
Master thesis, presentation and colloquium	MID T		30							x	
Sum SWS		48									
Sum CR			120								

Catalogue of compulsory elective subjects (WPF):

\- MIAD E2 Specialisation Construction
\- MIAD E3 Specialisation Programming
\- MIAD E4 Specialisation Theory
\- MIAD E5 Specialisation Visualizing

\- MIAD E6 Technical English II
\- MIAD E7 Business start-up/Career start
\- MIAD E8 NN from Master courses at the university

„Here you get the possibility to develop your individual skills. The professors are very supportive in the process and they push you to your limits, which should not be taken for granted."