

Faculty:
Built Environment



Site:
Campus Oberwerth

Degree Title: Façade Engineering	
Academic Title: Master of Engineering (M.Eng.)	Prerequisites for Admission: • BA or diploma in the field of Civil Engineering
Aim of the Course: This course will teach students interdisciplinary façade-related knowledge about the design and engineering of functional building envelopes.	

Structure of the Course/Curriculum:

„Master of Engineering“ Fassadenkonstruktionen			
1. Semester	2. Semester	3. Semester	4. Semester
Kosten und Kalkulation im Fassadenbau (5c)	Praxisphase (29c)	Gestaltungs- und Konstruktionsprinzipien von Fassaden (3c)	Master-Thesis (29c)
Projektmanagement (5c)		Fassadenkonstruktion (5c)	
Statik (6c)		Werkstoffe und Oberflächentechnik (2c)	
Ausgewählte Tragwerke der Gebäudehülle (5c)		Steingewinnung und Bearbeitung (2c)	
CAD (3c)		Fertigungs- und Montage-Technik im Fassadenbau (2c)	
Werkstoffspezifische Bauteilbemessung und Befestigungstechnik (4c)		Energie- und Steuerungstechnik der Gebäudehülle (4c)	
Fachenglisch (2c)	Begleitkurs (1c)	Farbe und Licht (2c)	Masterseminar (1c)
		Brandschutz und Sicherheitstechnik (3c)	
		Regenerative Energien – Photovoltaik (3c)	
		Baugeschichte der Fassade Technische Denkmalpflege (4c)	

‘Master of Engineering’ in Façade Engineering

Semester 1

Costs and Cost-Estimating in Façade Construction (5c) Project Management (5c) Statics (6c) Selected Supporting Structures for Building Envelopes (5c) CAD (3c) Material-Specific Component Assessment & Mounting Technology (4c) Technical English (2c)

Semester 2

Practical Phase (29c) Accompanying Course (1c)

Semester 3

Design & Engineering Principles of Façades (3c) Façade Engineering (5c) Materials & Surface Engineering (2c) Stone Quarrying & Processing (2c) Manufacturing & Mounting Technology in Façade Construction (2c) Energy & Control Technology for Building Envelopes (4c) Colour & Light (2c) Fire Safety & Safety Engineering (3c) Renewable Energies – Photovoltaic (3c) Architectural History of Façades; Technical Care of Monuments (4c)

Semester 4

Master Thesis (29c)
Master's Seminar (1c)

Employability/Professional Activities: For Graduates of this course work opportunities will arise in a broad spectrum of planning and constructional undertakings in the building trade, at manufacturers of façade systems, as well as in the supplier industries largely active on an international level.	
Final Examination/Examination Regulations: <ul style="list-style-type: none">• Legal basis: regulations governing the examination for the successive Master Degree in Façade Engineering• Module examinations, thesis and Viva	Additional Information <ul style="list-style-type: none">• Modular,• Accredited degree course
Admission to Further Postgraduate Studies Graduation will qualify students for a PhD.	
The Faculty's ECTS-/International Student Advisor Prof. Eva von Mackensen, E-Mail: evavonmackensen@gmx.de	