

Department of Water, Environment, Construction and Safety

- Introduction -

Prof. Dr.-Ing. Torsten Schmidt / Dean

1. Magdeburg-Stendal University of Applied Sciences and department
2. Study courses
3. Research and international exchange

University and department

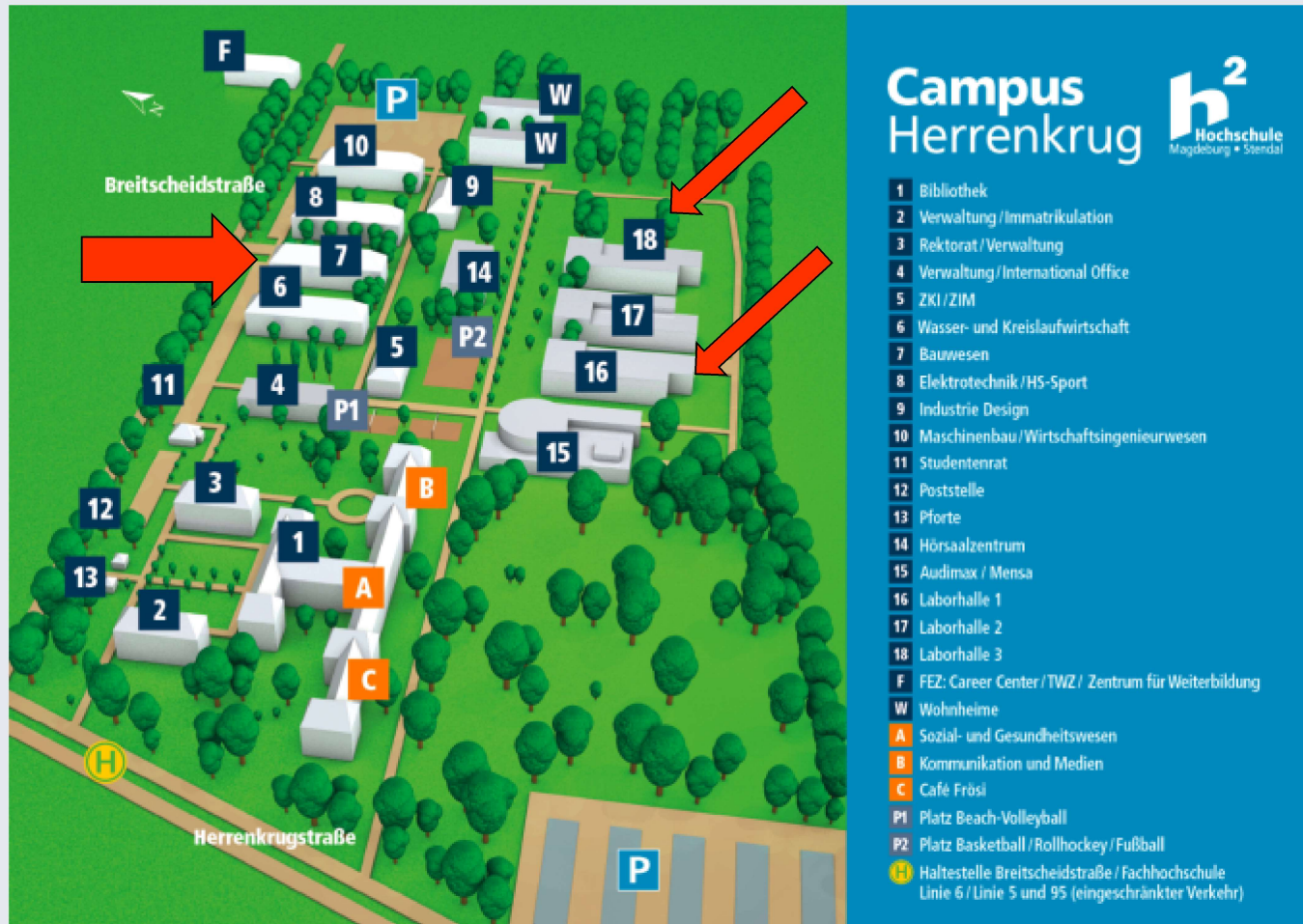
Magdeburg-Stendal University of Applied Sciences

- founded 1991
- located in Stendal and Magdeburg (+ outposts)
- since 2000 located in the campus Herrenkrug
- about 5.000 students
- app. 140 professors
- 5 departments
- app. 50 study courses
- decorated as the „most beautiful campus in Germany“ (05/2019)



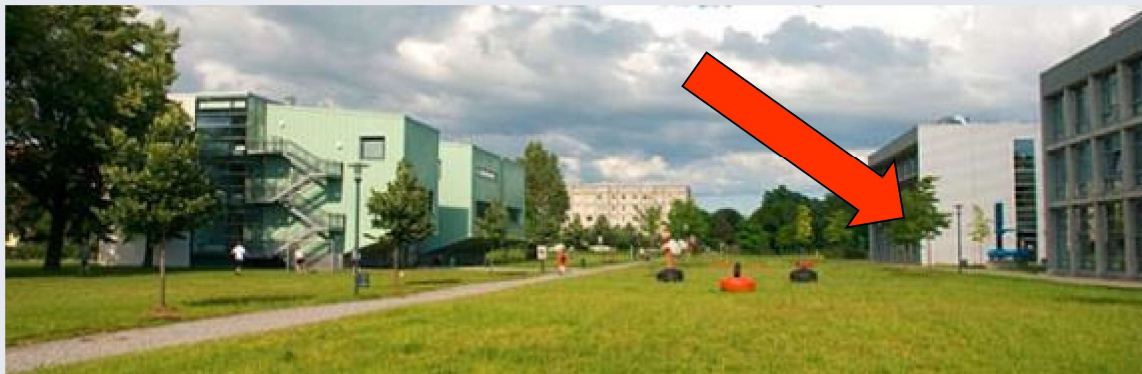
University and department

University map



Department of Water, Environment, Construction and Safety

- founded in 10/2015 by fusion of „Water and Waste Management“ and „Civil Engineering“
- about 1.100 students
- 35 professors
- additionally external contract teachers „from practice“
- ca. 40 scientific and administrative staff
- long historical roots: engineering education for more than 200 years



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Study courses

Study courses – Bachelor

Civil Engineering

(German, 210 ECTS, / 7 semesters)

Recycling and Waste Management

(German, 210 ECTS, 7 semesters)

Safety and Hazard Defence

(German, 210 ECTS, 7 semesters)

Water Management

(German, 210 ECTS, 7 semesters)

Sustainable Resources, Engineering
and Management (StREaM)

(English, 210 ECTS, 7 semesters)



Bachelor Civil Engineering



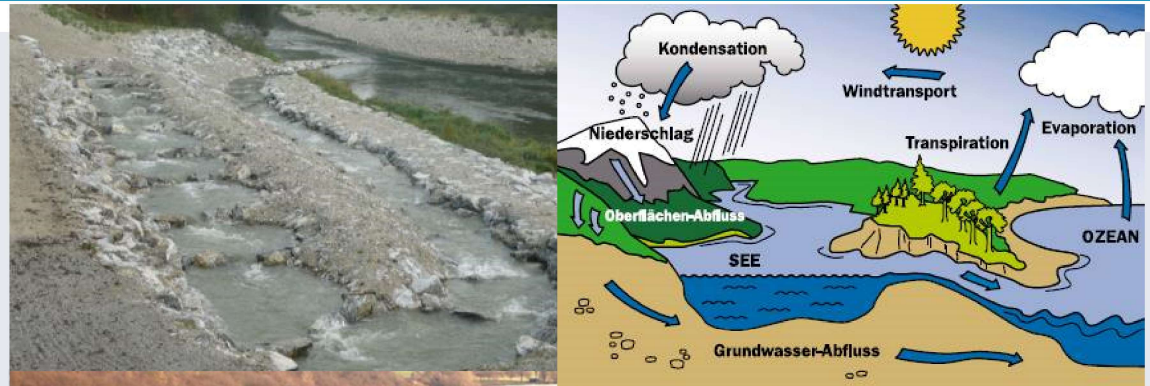
Bachelor Recycling and Waste Management



Bachelor Safety and Hazard Defence



Bachelor Water Management



Study courses

Study courses – Master (3 Semester, 90 ECTS)

Water management (German, M.Eng.)

Ecological Engineering (German, M. Sc.)

Water Engineering (English, M. Eng.)

Civil Engineering (German, M.Eng.)

Safety and Hazard Defence (German, M.Eng.)

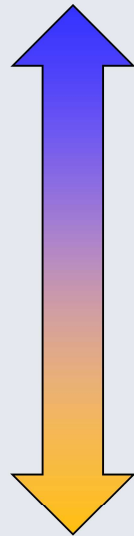
Energy-efficient Building Construction
and Reconstruction (German, M.Eng.)



Teaching and learning methods

- close connection between **Theory** und **Practice**

- lectures
- seminars
- project work
- laboratory work
- excursions
- practical semester



Interdisciplinarity

Natural sciences:

mathematics, chemistry, physics, biology

Engineering sciences :

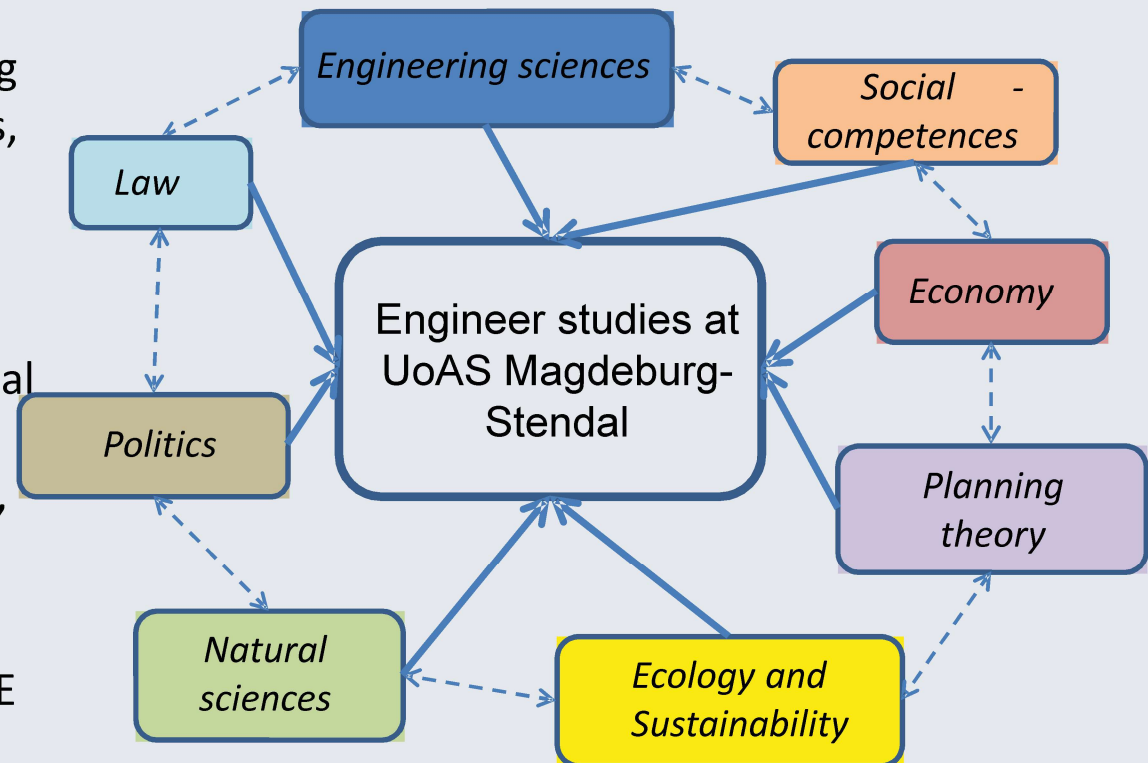
statics, process engineering, building materials and construction methods, mechanical engineering, hydro-dynamics, urban engineering

Social sciences:

economy, law, politics, ethics, societal challenges, planning theory, social competences, change management, planning theory

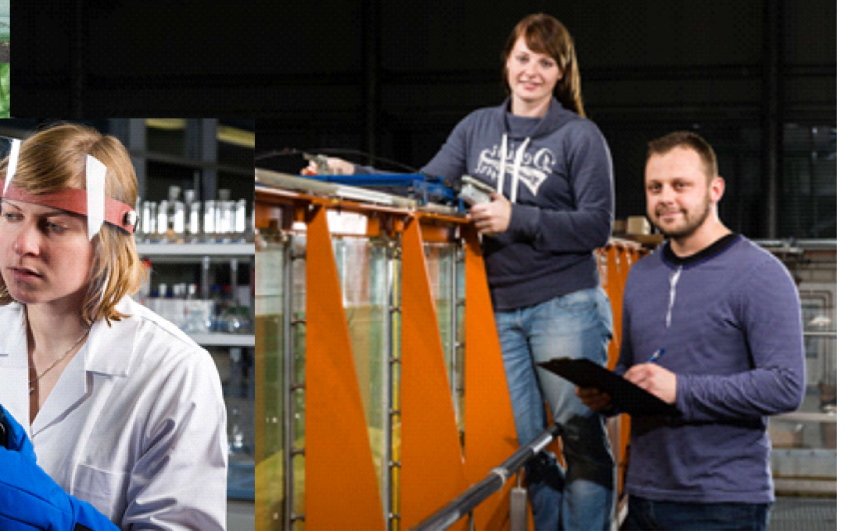
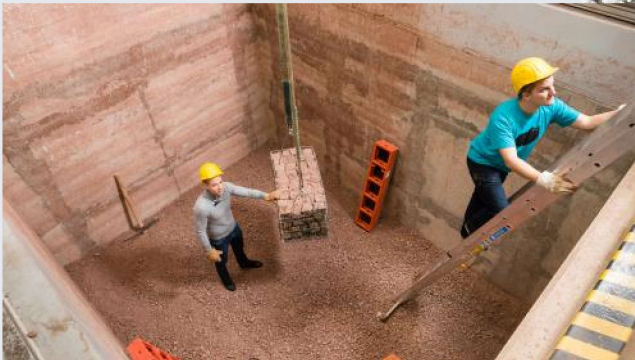
Others:

languages, informatics, CAD and CAE



Study courses

Practical courses in well equipped laboratories



Excursions / cooperations / exhibitions

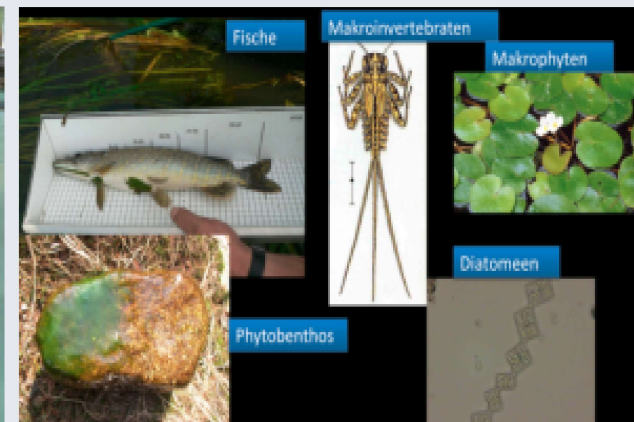


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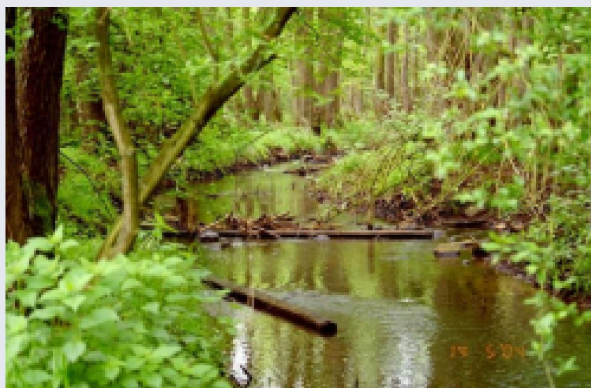
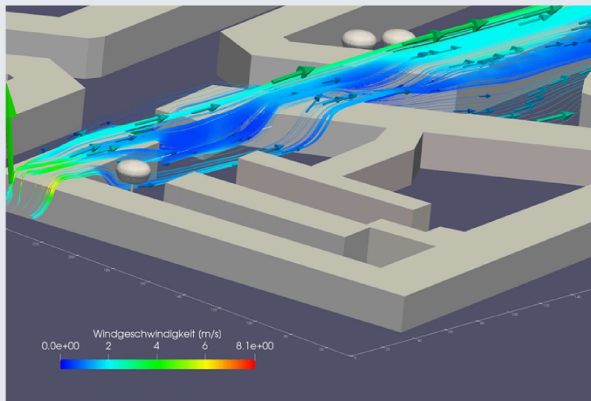
Research facts for the department

- external research funding in 2022 about 2.2 Mio €
- about 25 employees within research projects
- about 70 publications per year
- 10 PhD-students in cooperation with several universities
- since 2021 department has the right to award the doctorate title through the PhD college „Environment and Technology“

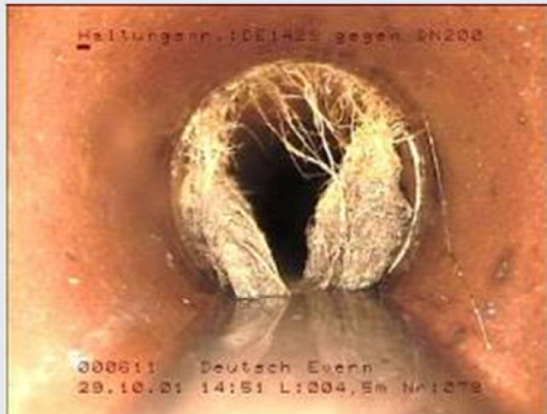
Research projects



Research projects



Research projects



International Exchange

- many international relations:
 - on strategic level with official contracts
 - on personal level of the professors
- main student exchanges with Jordan, Spain, China, India, Vietnam
- English Master Course Water Engineering:

Programme in cooperation with Universidade da Coruña (Spain) and other Universities from Chile, France and UK with about 30 students

- English Bachelor Course STREAM:

Programme in cooperation with Department of Economics and Department of Engineering and Industrial Design, with about 90 students from 28 countries worldwide

International partners

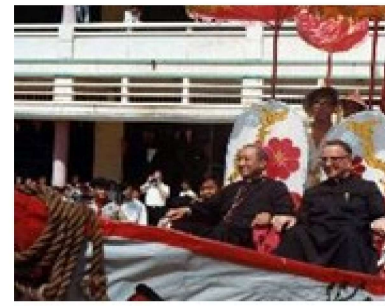
Universidad de la Laguna (ULL), Spanien



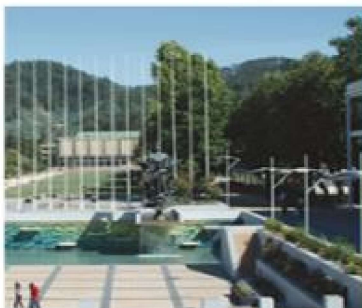
Universidad La Coruña, Spanien



Ho Chi Minh University of Industry, Vietnam



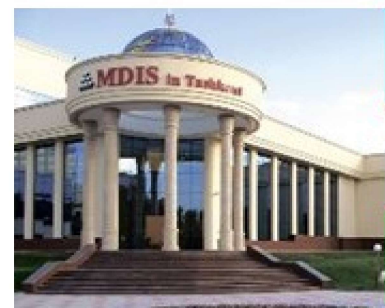
Universidad Concepción, Chile



German Jordanian University, Jordanien



Tashkent Postgraduate Institute, Usbekistan



International partners

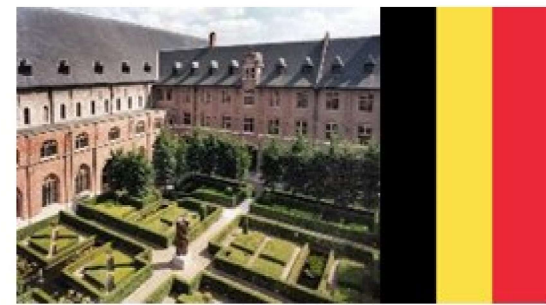
Escuela Superior Politécnica del Litoral, Ecuador



University of Huelva, Spanien



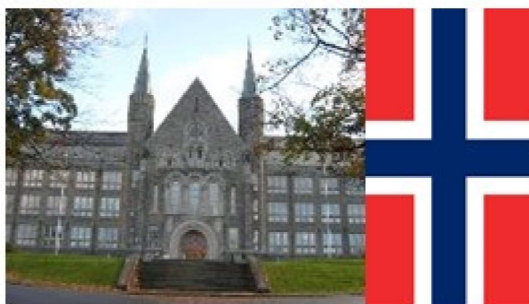
University of Ghent, Belgien



CAH Vilentum Almere, Niederlande



University of Trondheim, Norwegen



Stockholm University, Schweden





Questions?