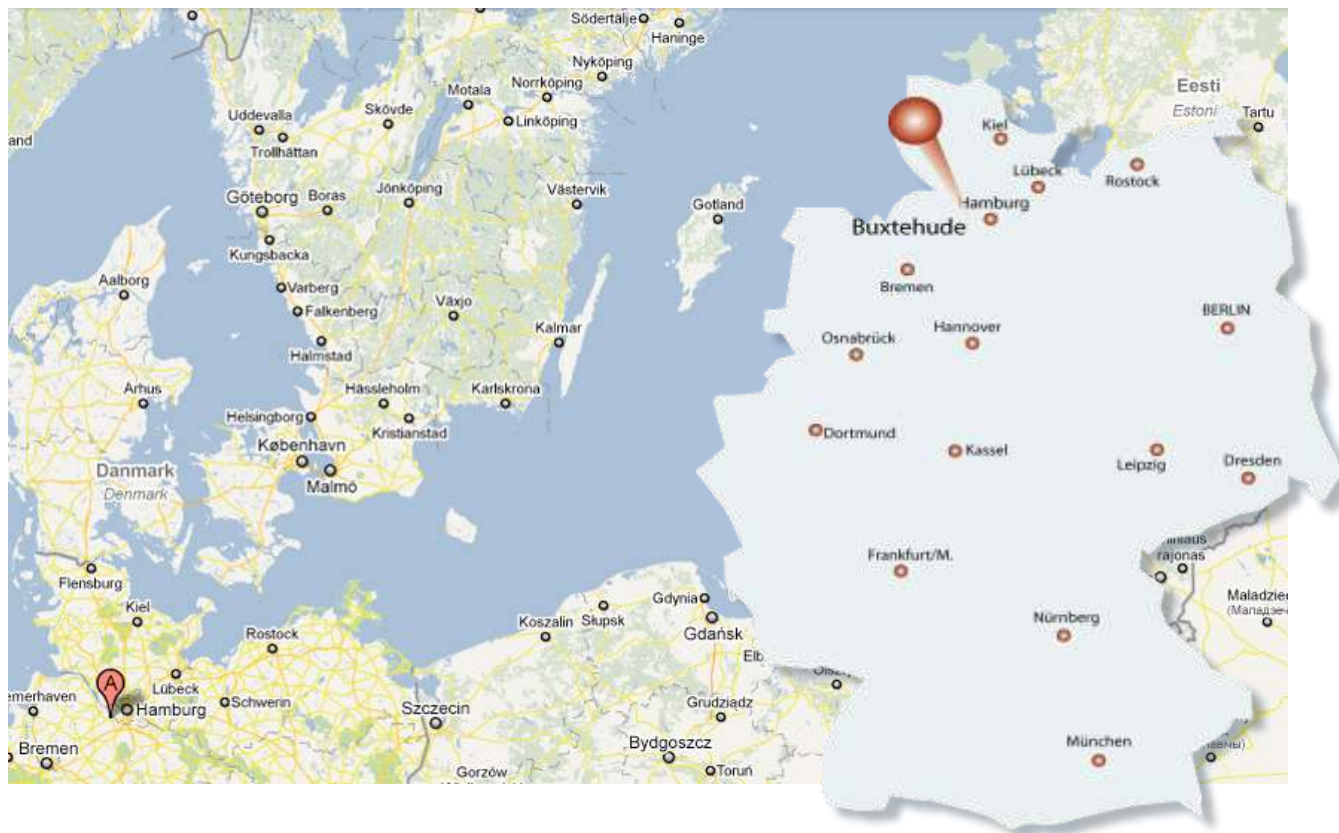




Welcome to Buxtehude

University of Applied Sciences

Where You Can Find Us



Easy Access by Public Transport



Buxtehude, A Hanseatic City

Tradition

- founded in 1197
- member of the Hanseatic League since 1363
- hometown of the fairy tale „The Hare and the Hedgehog“
- surrounded by historic landscapes "Altes Land" (pomiculture) and "Lüneburger Heide" (heathlands)



Fotos: Madle Fotowelt, Daniela Ponath

Buxtehude: Industrial Activities

Current Status

- 40.000 residents
- 80 square kilometers
- part of the metropolitan area Hamburg

Industrial Sectors

- aircraft industry
- building industry
- chemical industry
- medical industry
- shipping companies



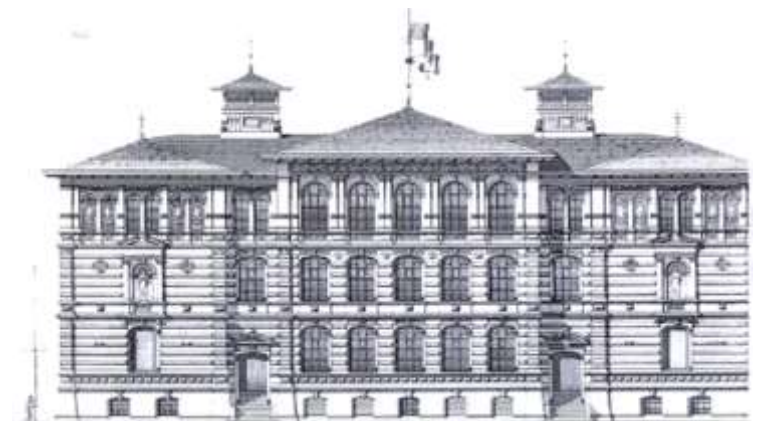
Facts & Figures

- University of Applied Sciences
- State-recognized
- Founded in 1875
- 1.100 students
- 3 faculties
- 8 bachelor programs



Our History

- 1875** founded as an academy for Civil Engineering
- 1971** University of Applied Sciences, focus on Building Sciences
- 2004** Transformation from public University into a private public partnership
- 2005** Kick-start as a privatized University, 48 students reading Civil Engineering
- 2006** Introduction of Physiotherapy
- 2009** Introduction of Mechatronics
- 2015** Launch of Midwifery
- 2017** Launch of Nursing
- 2019** Launch of Building Services Engineering



Bachelor Degrees

- Architecture DUAL (BEng)
- Civil Engineering DUAL (BEng)
- Building Services Engineering DUAL (BEng)
- Mechatronics DUAL (BEng)
- Midwifery DUAL (BSc)
- Nursing DUAL (BSc)
- Physiotherapy DUAL (BSc)
- Industrial Engineering and Management
Construction and Real-estate
DUAL (BEng)



Our Brand – Our Strengths

- Dual curriculum: combines higher education with professional practice
- Small cohorts: typically 30 to 50 students per year and course
- Small learning groups: Easy access to Professors and Tutors
- Our Campus setting: Family atmosphere



The Structure of Our Dual Curriculum

Structure of our engineering courses

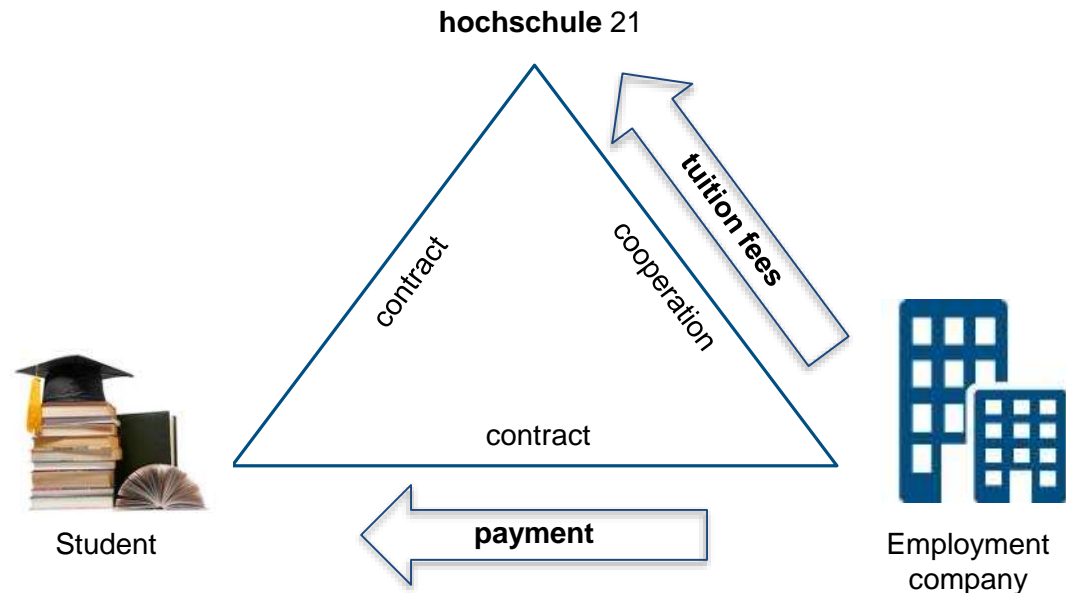
- two terms per year
- start of university year in September
- per term: 50% theoretical education, 50% professional practice within an employment company
- illustration of the educational phasing:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
On-the-Job Training			Lectures			On-the-Job Training			Lectures		

The Contractual Triangle

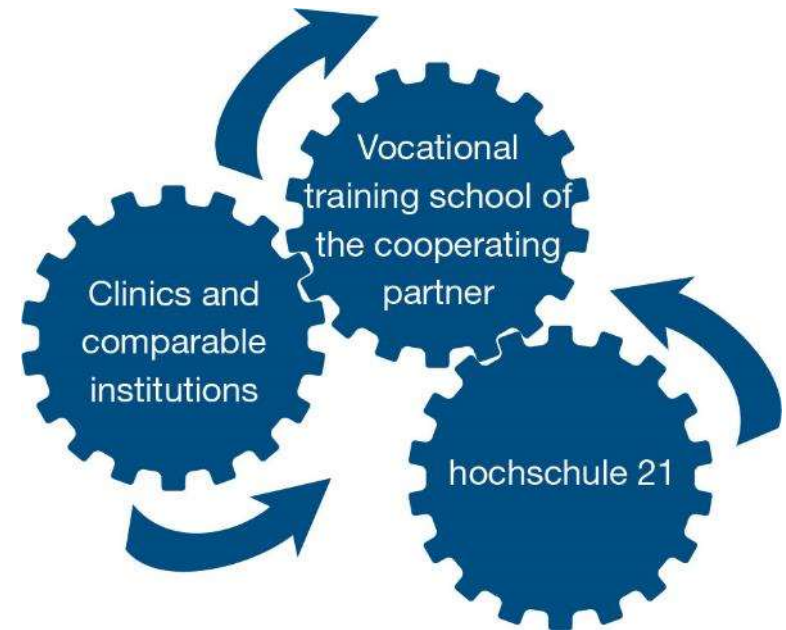
Students have a dual contractual relationship

1. with hochschule 21 (the student contract)
2. with an employment company (the employment contract)



How Does Duality Work for Health Studies?

- Students hold a contract with our partner hospitals
- Partner hospitals offer vocational training at their in house schools as well as work practice
- Students hold a contract with hochschule 21 (the student contract)
- hochschule 21 offers academic tuition
- Academic tuition integrates vocational training



Architecture DUAL – A Brief Intro

Nomination	15 April for winter term, 15 November for summer term
Application	15 June for winter term, 15 January for summer term
Duration of studies	8 terms, integrated practical periods (2x3 months) per year
Credit Points	Min. 240 CP
Degree	Bachelor of Engineering; certificate for engineers issued by the Chamber of Engineers in Niedersachsen; acknowledged by the Chamber of Architects
Tuition fees	None for Erasmus exchange students

Study Structure Architecture DUAL (Status as of March 2018)



1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester
Design Basics and Building Typology		Architectural Design 1	Architectural Design 2	Architectural Design 3	Brief Designs		Final Bachelor Module
Design Basics	Building Typology			Constructive Design	Brief Designs (min. 5, 5 CP)		Preparatory Seminar
Computer Aided Design and Presentation		Building Recording and Surveying		Design Projects			
CAD and Presentation (1)	CAD and Presentation (2)	Surveying	Building Recording and Surveying	Design Projects (min. 3, 15 CP)			Bachelor Thesis
Visual Representation and Creative Design	History and Theory 1		History and Theory 2		Architectural Representation		
	History of Architecture and Art (1)	History of Architecture and Art (2)	Architectural Theory		Representation (min. 1, 2 CP)	Sketch Book	
Construction und Technology 1	Construction und Technology 2	Construction und Technology 3		Urban Planning and Design		Urban Design	Planning Laws and Building Regulations
Building Construction 1	Building Construction 2	Building Construction 3	Historic Preservation	Urban Planning and Design (1)	Urban Planning and Design (2)		
				Energetic Building Refurbishment	Key Qualifications and Compulsory Electives		
Structures	Structural Engineering 1	Structural Engineering 2	Architectural Excursion		Key Qualifications (min. 3, 6 CP) and Compulsory Electives (min. 3, 9 CP)		
			Business Administration	Construction Management		Building Damages	Cost and Schedule Planning
Building Materials 1	Building Physics and Technology A	Building Physics and Technology B		Construction Management A	Construction Management B		
Practice Module I		Practice Module II		Practice Module III		Practice Module IV	
Practice Phase 1	Practice Phase 2	Practice Phase 3	Practice Phase 4	Practice Phase 5	Practice Phase 6	Practice Phase 7	
							total 240 CP

Civil Engineering DUAL – A Brief Intro

Nomination	15 April for winter term, 15 November for summer term
Application	15 June for winter term, 15 January for summer term
Duration of studies	7 terms, integrated practical periods (2x3 months) per year
Credit Points	Min. 210 CP
Degree	Bachelor of Engineering; certificate for engineers issued by the Chamber of Engineers in Niedersachsen
Tuition fees	None for Erasmus exchange students

Study Structure Civil Engineering DUAL (Status as of March 2018)



1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester
Structures	Structural Analysis 1	Structural Analysis 2	Structural Analysis 3		Civil Engineering Hydraulics	Urban Water Supply and Sanitation / Waste
Business Administration A	Planning Laws and Building Regulations	Construction Management A	Excursion	Construction Management B	Construction Management C	Compulsory Elective B
Building Construction 1	Building Physics and Technology A	Building Physics and Technology B	Steel Structure Design 1	Steel Structure Design 2	Design of Timber Structures	Compulsory Elective C
Mathematics 1	Mathematics 2	Building Construction 2	Geotechnical Engineering 1	Geotechnical Engineering 2	Specialization Module A	Specialization Module B
Building Materials 1	Building Materials 2	Reinforced Concrete and Masonry Design 1	Reinforced Concrete and Masonry Design 2	Reinforced Concrete and Masonry Design 3	Compulsory Elective A	
Information and Communication Technology	Surveying		Traffic Infrastructure 1	Traffic Infrastructure 2	Key Qualification A	Key Qualification B
Practice Phase 1	Practice Phase 2	Practice Phase 3	Practice Phase 4	Practice Phase 5	Practice Phase 6	Practice Phase 7; Bachelor Thesis
						Subject to modifications

Industrial Engineering and Management Construction and Real-estate DUAL – A Brief Intro

Nomination	15 April for winter term, 15 November for summer term
Application	15 June for winter term, 15 January for summer term
Duration of studies	7 terms, integrated practical periods (2x3 months) per year
Credit Points	Min. 210 CP
Degree	Bachelor of Engineering; certificate for engineers issued by the Chamber of Engineers in Niedersachsen
Tuition fees	None for Erasmus exchange students

Study Structure Industrial Engineering and Management Construction and Real-estate DUAL (Status as of July 2018)



1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester
Structures	Building Physics and Technology A	Building Physics and Technology B	Introduction to Building Planning	Projects A	Projects B	
Building Materials	Planning Law and Building Regulations	Construction Management A	Construction Management B	Accounting Commercial law	Construction Management C	Business Administration D
Business Administration A Excel, Access	Business Administration B	Macro Economics	Business Administration C	Property Portfolio Management	Facility Management	Digital Real-estate Management
Building Construction CAD	Structural Engineering	Project Development	Private Construction Law	Life-cycle Management	Specialization Module A	Specialization Module B
Mathematics		Real Estate Management	Project Management	Compulsory Elective		
	Key Qualification	Foreign Language	Excursion			
Practice Phase 1	Practice Phase 2	Practice Phase 3	Practice Phase 4	Practice Phase 5	Practice Phase 6	Practice Phase 7; Bachelor Thesis
						Subject to modifications

Mechatronics DUAL – A Brief Intro

Nomination	15 April for winter term, 15 November for summer term
Application	15 June for winter term, 15 January for summer term
Duration of studies	7 terms, integrated practical periods (2x3 months) per year
Credit Points	Min. 210 CP
Degree	Bachelor of Engineering; certificate for engineers issued by the Chamber of Engineers in Niedersachsen
Tuition fees	None for Erasmus exchange students

Study Structure Mechatronics DUAL - Focus: Production and Automation Engineering (Status as of March 2018)



1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester
Mathematics 1	Mathematics 2	Machine Components 1	Machine Components 2	Production and Manufacturing Technology 1	Production and Manufacturing Technology 2	Quality Management - Laws and Technical Standards 2
Technical Mechanics 1	Technical Mechanics 2	Electric Power Units	Hydraulic and Pneumatic Systems	Control Engineering 1	Control Engineering 2	Mechatronic Systems 2
Chemistry / Materials Science	Computer Science 1	Computer Science 2	Computer Science 3	Energy and Environmental Engineering	Mechatronic Systems 1	Specialization Module 2
Physics	Electrical and Electronics Engineering	Industrial Electronics - Components and Applications	Automation Engineering	Project Management and Business Management 2	Specialization Module 1	Compulsory Elective 2
Technical Drawing 1	Measuring and Sensor Engineering	Technical Drawing 2 (CAD)	Project Management and Business Management 1	Quality Management - Laws and Technical Standards 1	Compulsory Elective 1	
Key Qualification 1			Technical English 1	Technical English 2	Technical English 3	
				Key Qualification 2		
Practice Phase 1	Practice Phase 2	Practice Phase 3	Practice Phase 4	Practice Phase 5	Practice Phase 6	Practice Phase 7; Bachelor Thesis
						Subject to modifications

Physiotherapy DUAL – A Brief Intro

Nomination	15 April for winter term, 15 November for summer term
Application	15 June for winter term, 15 January for summer term
Duration of studies	7 terms, including a 3 year vocational training at our clinic partners
Credit Points	Min. 180 CP
Degree	Bachelor of Science, state-approved physiotherapist
Tuition fees	None for Erasmus exchange students
Partners	Cooperation with Elbe Clinics Stade-Buxtehude, University Clinic Hamburg-Eppendorf

Study Structure Physiotherapy DUAL (Status as of January 2019)						
1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester
Research Methods		Evidence-based Medicine		Interprofessional Practice	Research Workshop	Bachelor Thesis
Introduction to Scientific Work	Damage/Impairment of Sensory Systems, Motor Control and Pain			Differential Diagnosis and Differential Therapy		Intervention und Outcome
Normal Functions and Health		Structural and Function Impairments of Neuromuscular and Motor Systems 2		Medical Care in Diverse Contexts		
Structural and Function Impairments of Internal Organs					From Beginners to Experts	
Structural and Function Impairments of Neuromuscular and Motor Systems 1				Prevention and Rehabilitation 2		
	Prevention and Rehabilitation 1	Practical Course Phase 1	Practical Course Phase 2	Practical Course Phase 3		Practical Course Phase 4
Subject to modifications						

International Relationships

Partnering Universities

- German University of Technology in Oman
- Lublin University of Technology
- Oestfold University College
- Politecnico di Milano
- Slovak University of Technology
- Technological University Dublin
- Universidad de Cantabria
- University of Patras
- University of Rzeszów





Thank You for Your Attention