Hochschule Düsseldorf
University of Applied Sciences

HSD

WELCOME TO HOCHSCHULE DÜSSELDORF
UNIVERSITY OF APPLIED SCIENCES

DÜSSELDORF AND THE HSD

- About Düsseldorf
- About Hochschule Düsseldorf – University of Applied Sciences
- Studying at HSD: About the Faculties
- Studying at HSD: Student Services
- Studying at the Faculty of Media

WHY DÜSSELDORF?

1. The Rhine
2. Up-to-dateness
3. Innovation
4. Creativity
5. Joie de vivre
6. Multicultural and multiethnical life
7. Economical strength

CITY OF ARTS AND SCIENCES

Heinrich-Heine-University

– about 36.000 students

– 5 faculties (Medicine, Business and Economics, Humanities, Law, Mathematics and Sciences)

Hochschule Düsseldorf – University of Applied Sciences

– More than 10.000 students

– 7 faculties (Architecture, Design, Electrical Engineering and Information Technology, Mechanical and Process Engineering, Business Studies, Social Sciences and Cultural Studies)

Musikhochschule „Robert Schumann"

– Music Academy about 1.000 students

Kunstakademie – Academy of Fine Arts

– founded in 1773 about 700 students

Numerous private universities for business studies, health care and health management studies

CITY OF BUSINESS, TRADE AND INDUSTRY

- Fashion
- Exhibition Fairs (medica, boot, caravan etc.)
- Henkel
- Vodafone
- Daimler
- 3M
- Teekanne
- …

CITY OF TRAFFIC AND TRANSPORT

1. **Logistics**
   - Excellent road system
   - Approximately 150 m people – 40% of the European population – within a day's journey reach

2. **International Airport**
   - Düsseldorf International Airport counts more than 180 departures every day
   - Most of the European capitals can be reached in less than an hour

3. **Port on the Rhine**

4. **Railway connections**
   - More than 100 ICE-, IC- and EC-trains per day in all directions
   - Direct connection from the main station to the airport

CITY OF ADMINISTRATION

Parliament of North-Rhine Westphalia

Government of North-Rhine Westphalia

Hochschule Düsseldorf
University of Applied Sciences

INTERNATIONAL CITY

- largest Japanese community in central Europe
  - about 11,000 residents
  - 450 Japanese companies
- Japan Day

Photo by Gakuro: Temple Garden of the EKŌ-House of Japanese Culture e.V. in Düsseldorf-Niederkassel

FACTS & FIGURES ABOUT HSD

11.343
students

187
professors

544
academic and administrative staff

2
guest professors
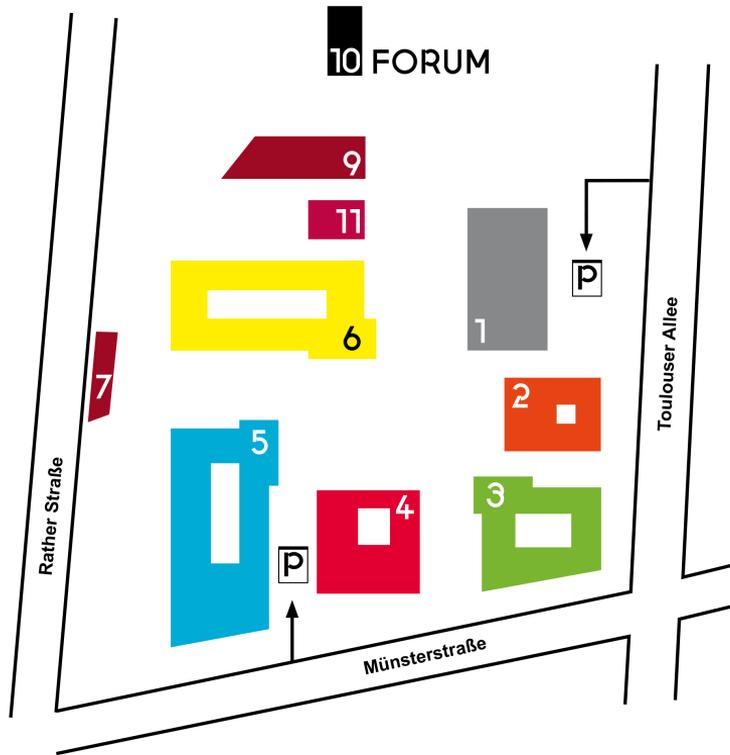
180
partner universities

NUMEROUS
contacts to companies, social and cultural institutions

Hochschule Düsseldorf
University of Applied Sciences

CAMPUS DERENDORF

1. Campus-IT, University Library & Alter Schlachthof – Memorial Site

2. President, Administration, Students' Affairs Offices, Cafeteria

3. Faculties of Social Sciences and Cultural Studies, Business

4. Faculty of Media, Audimax

5. Faculties of Electrical Engineering and Information Technology, Mechanical and Process Engineering

6. Peter Behrens School of Arts: Faculties of Architecture and Design

7. Centre for Further Education

8. Underground car park (not in this picture)

9. Lecture Halls, Students' Dormitories

10. Forum Düsseldorf - Rented buildings for the HSD

11. Centre for Digitalization and Digitality (under construction)

Hochschule Düsseldorf
University of Applied Sciences

CAMPUS DERENDORF

Hochschule Düsseldorf
University of Applied Sciences
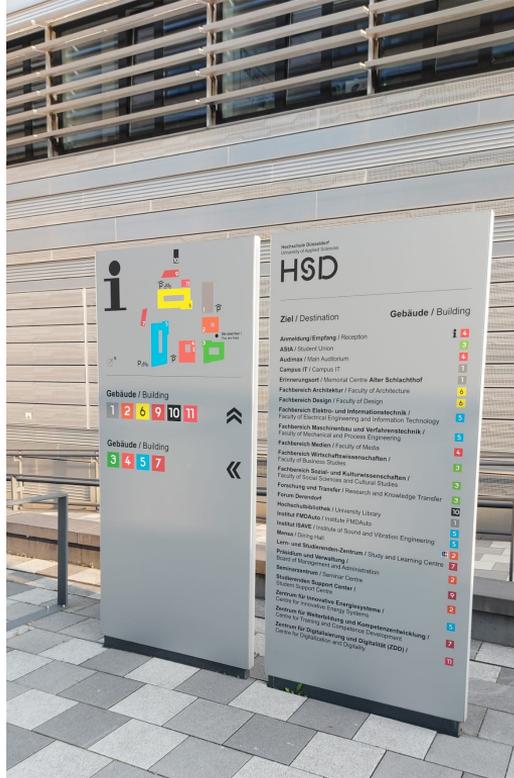
1 – UNIVERSITY LIBRARY

1 – CAMPUS IT

2 – STUDENT SUPPORT CENTRE

Hochschule Düsseldorf
University of Applied Sciences
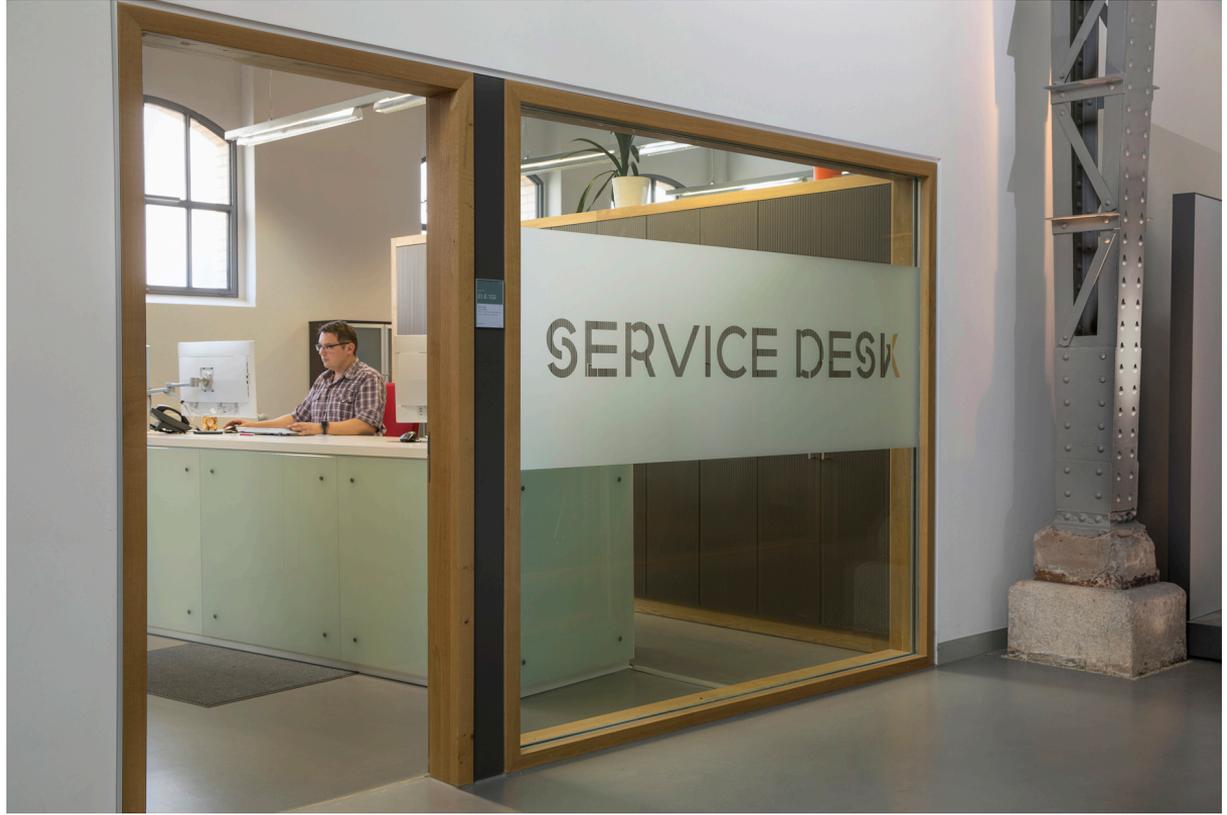
2 – STUDENT SUPPORT CENTRE

- Student Advisory Service
- Career Service
- Psychological Service
- International Office

2 – DINING HALL

Hochschule Düsseldorf
University of Applied Sciences

FACULTY OF SOCIAL SCIENCES AND CULTURAL STUDIES

2502 students
35 professors

Study Programmes:
Social Work/Social Pedagogy (B.A.)
Early Childhood Education and Familiy Studies (B.A.)

Empowerment Studies (M.A.)
Culture, Aesthetics, Media (M.A.)
Psychosocial Counselling (M.A.)

FACULTY OF BUSINESS STUDIES

1566 students
29 professors

Study Programmes:
Business Administration (B.A.)
Communication and Multimedia Management (B.A.)
International Management (B.A.)

Communication, Multimedia and Market Management (M.A.)
Business Analytics (M.A.)
International Management (M.A.)

5 – FACULTIES OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY, MECHANICAL AND PROCESS ENGINEERING

FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY

1501 students
24 professors

Study Programmes:
Electrical Engineering (B.Eng.)
Electrical Engineering dual (B.Eng.)
Communication and Information Technology (B.Eng.)
Communication and Information Technology dual (B.Eng.)
Industrial Engineering and Business Management (B.Eng.)

Electrical Engineering and Information Technology (M.Sc.)
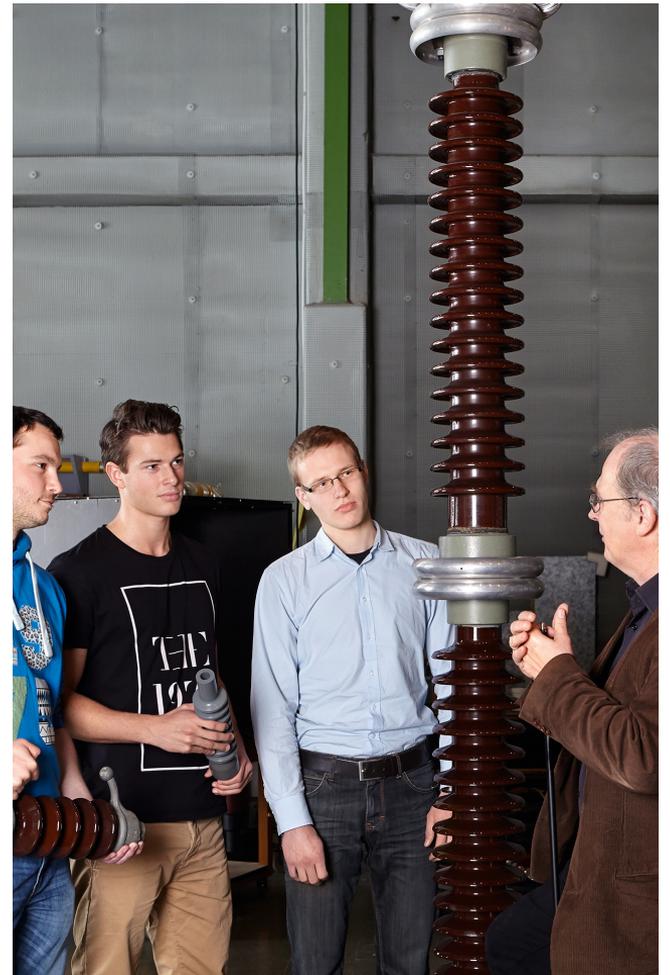
FACULTY OF MECHANICAL AND PROCESS ENGINEERING

2014 students
24 professors

Study Programmes:
Mechanical Engineering: Product Development (B.Eng.)
Mechanical Engineering: Production Technology (B.Eng.)
Energy and Environmental Engineering (B.Eng.)
Environmental and Process Technology (B.Eng.)
Industrial Engineering (B.Eng.)

Simulation and Experimental Technology (M.Sc.)
Mechanical Engineering (M. Sc.)
International Industrial Engineering (M.Sc.)

6 – PETER BEHRENS SCHOOL OF ARTS: FACULTIES OF ARCHITECTURE AND DESIGN

FACULTY OF ARCHITECTURE

896 students
22 professors

Study Programmes:
Architecture and Interior Architecture (B.A.)

Architecture (M.A.)
Interior Architecture (M.A.)
Exhibition Design (M.A.)
Civic Design and Urban Planning (M.A.)

FACULTY OF DESIGN

1080 students
20 professors

Study Programmes:
Applied Art and Design (B.A.)
Communication Design (B.A.)
Retail Design (B.A.)

Applied Art and Design (M.A.)
Communication Design (M.A.)
Exhibition Design (M.A.)

4 – FACULTY OF MEDIA, AUDIMAX

FACULTY OF MEDIA

1.103 students
19 professors

Study Programmes:
Media Engineering (B.Eng.)
Media Informatics (B.Sc.)
Audio and Video (B.Eng.) (in cooperation with Robert-Schumann-Hochschule)

Media Informatics (M.Sc.)
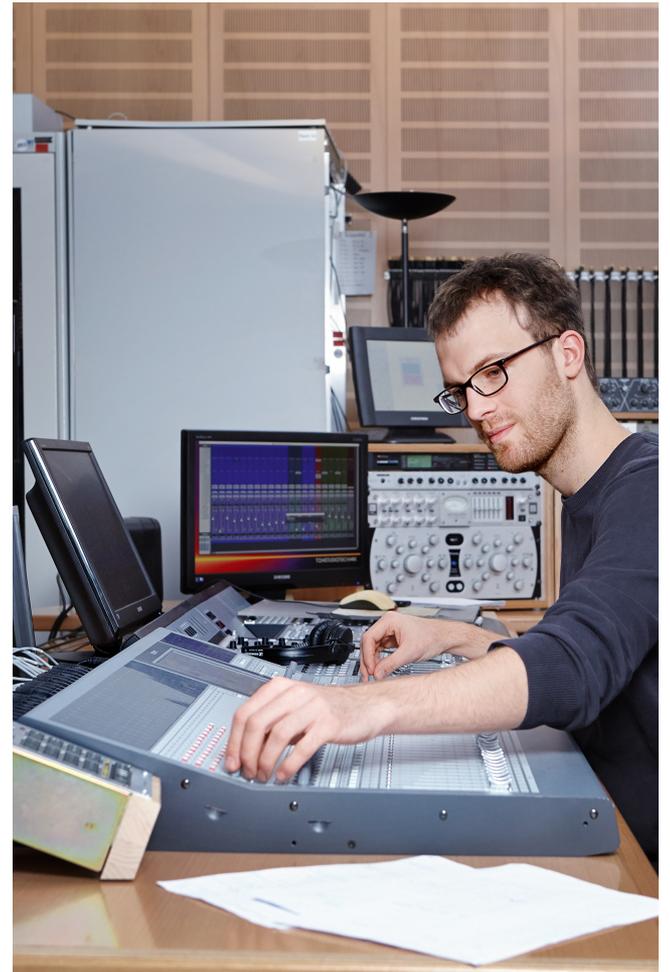
FACULTY OF MEDIA

Established in the year 2000 in order to increase the media profile of the Hochschule Düsseldorf

The interdisciplinary focus is one of the particular characteristics:

Integration of non-technical contents as e.g. design and music in courses fundamentally relating to information and technology

MASTER OF SCIENCE MEDIA INFORMATICS: CURRICULUM, LEARNING OUTCOMES AND STRUCTURE

Scientific Studies as preparation for professional careers based on fundamental methodologies, engineering and profound knowledge in the fields of Virtual Environments and Multimedia Systems

- **in-depth knowledge, competence, and methodology based on Engineering principles**
- **key qualifications**
- **scientific research and development**
- **work in international environment**
- **Preparation for leadership (e.g., qualification for the higher service)**
- **fundament and basis for a Ph.D. program**

STUDENT DORMITORY

- **https://web.hs-duesseldorf.de/panorama/Campus/ index.html#Campus_Studentenwohnheim_Haus_C_Wohnung _Fenster**
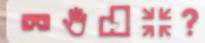
HOW TO JOIN?

Exchange student from partner university or as a free mover

Intern in a lab or institute

Bachelor or master thesis in cooperation

Researcher

Lecturer

FUNDING

ERASMUS+ Program
    Exchange students
    Internships (Bachelor programs)
Research programs

HOW TO SELECT CLASSES

https://medien.hs-duesseldorf.de/en

WELCOME TO THE FACULTY OF MEDIA

The Faculty of Media – founded in December 2000 – offers study programmes around new media und multimedia and their usage in all social and commercial areas: a bachelor's programme in media engineering, audio and video and media informatics as well as a master's programme in media informatics.

Our students are trained to become highly qualified experts for (multi)media solutions. They gather knowledge and competences during lectures, seminars and lab work as well as in many interdisciplinary projects – from the fundamentals to advanced application of media technology. Our graduates know all phases from analysis to design, implementation and presentation and can thus find suitable solutions in terms of economy, design and technology.
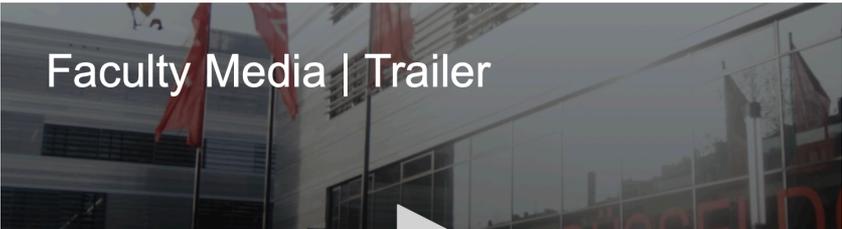
Faculty Media | Trailer

SEMESTER DATES (SOSE 2023)

General semester dates

Lecture period:
Montag, 20.03.2023, 08:00 Uhr
to Freitag, 07.07.2023, 18:00 Uhr

Osterferien (vorlesungsfrei):
Freitag 07.04.2023
to Sunday 16.04.2023

Developmentdays (voraussichtlich):
Montag 10.07.2023
to Tuesday 11.07.2023

Examination period:
Mittwoch 12.07.2023
to Thursday 31.08.2023

Upcoming semester dates >>

Please note: In iCalendar and Outlook, an ICS file will be created. Please deactivate your ad blocker for this page to use this feature.

MODULES OF OUR STUDY PROGRAMMES (EXAMINATION REGULATIONS OF 2018)

You can adjust the filter for selecting a specific program (e.g., Master of Science in Media Informatics), semester (e.g., summer) or language of instructions. For classes with English on demand, the language will be switched to English when an exchange student takes part. Besides taking classes, exchange students could become an intern of a research laboratory or work on a final project which would lead to a thesis at the home institution.

| All study programmes ‡ | All semesters ‡ | Language of instruction: English on demand ‡ |

▶ **Abbreviations**

BMI 10: Informatics Project 1

1 SE, 3 PR | 5 CP

Person responsible for the module

➡ <u>Prof. Dr.-Ing. Thomas Rakow</u>

Examination

➡ **Section 18d Project examination**

Contents

Practical work in:

- Coordination in the project team
- Programming
- Presentation and Review

The task of the project is the development of a program, for example from

MMI 05.08: Interactive Virtual Studio

1 L, 1 E, 2 PR | 5 CP

Person responsible for the module

→ **Prof. Dr. Eng. / Univ. of Tsukuba Jens Herder**

Examination

→ **Section 18d Project examination**

Other information

→ **Language of instruction: German, English on demand**
→ **Offered in: winter semester**

Contents

Topics include:

- Application and use of virtual sets
- Hard- and software for digital (TV) studio productions
- Light and light setting for TV studios
- Camera and actor tracking systems
- Virtual set design for artificial or real scenes
- Motion capture
- Real-time computer graphics and effects
- Separation of image elements (e.g., chroma keying)
- Integration of animations and virtual characters
- Interaction within a virtual tv studio
- Feedback methods for actors
- Studio production planning

▼ More information

Prerequisites

Other information

→ **Language of instruction: German, English on demand**

→ **Offered in: winter semester**

- Real-time computer graphics and effects
- Separation of image elements (e.g., chroma keying)
- Integration of animations and virtual characters
- Interaction within a virtual tv studio
- Feedback methods for actors
- Studio production planning

▼ More information

Prerequisites

subject related:
Computer Science, Programming, Video Engineering, Computer Graphics

Learning outcomes

Successful participants will have a profound knowledge in building and developing virtual set environments for broadcasting applications and will be able to evaluate virtual studio (TV) technology. Tracking, composition of video and computer graphics under live conditions for media productions are essential part.

LEARNING AGREEMENT

- Three Phases
  - Before
  - During
  - After
- Agreed and signed by all parties

Erasmus+

Learning Agreement
Student Mobility for Studies

Higher Education:
Learning Agreement form
Student's name
Academic Year 20…/20…

Student	Last name(s)	First name(s)	Date of birth	Nationality[1]	Gender [Male/Female/ Undefined]	Study cycle[2]	Field of education [3]

	Name	Faculty/Department	Erasmus code[4] (if applicable)	Address	Country	Contact person name[5]; email; phone	
Sending Institution							
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	

Before the mobility

Table A Before the mobility

Study Programme at the Receiving Institution

Planned period of the mobility: from [month/year] …………… to [month/year] ……………

Component[6] code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue[7])	Semester	Number of ECTS credits (or equivalent)[8] to be awarded by the Receiving Institution upon successful completion
			Total: …

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [web link to the relevant information]

The level of language competence[9] in _____ [indicate here the main language of instruction] that the student already has or agrees to acquire by the start of the study period is: A1 □   A2 □   B1 □   B2 □   C1 □   C2 □   Native speaker □

Table B Before the mobility

Recognition at the Sending Institution

Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
			Total: …

Provisions applying if the student does not complete successfully some educational components: [web link to the relevant information]

Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Beneficiary Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits or equivalent units gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student			*Student*		
Responsible person[10] at the Sending Institution					
Responsible person at the Receiving Institution[11]					

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Hochschule Düsseldorf
University of Applied Sciences

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LEARNING AGREEMENT

- Selected classes will be offered

- Selected classes will be recognised

LEARNING AGREEMENT

- Field of Education
- Selection of classes
- Module descriptions

Learning Agreement
Student Mobility for Studies

Erasmus+

Student	Last name(s)	First name(s)	Date of birth	Nationality[1]	Gender [Male/Female/ Undefined]	Study cycle[2]	Field of education [3]

	Name	Faculty/Department	Erasmus code[4] (if applicable)	Address	Country	Contact person name[5]; email; phone	
Sending Institution							
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone	

Before the mobility

Table A Before the mobility	*Study Programme at the Receiving Institution*			
	Planned period of the mobility: from [month/year] .... to [month/year]			
	Component[6] code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue[7])	Semester	Number of ECTS credits (or equivalent)[8] to be awarded by the Receiving Institution upon successful completion
				Total: ...

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Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [*web link to the relevant information*]

LEARNING AGREEMENT

Sending Institution	Name	Faculty/Department	Erasmus code[4] (if applicable)	Address	Country	Contact person name[5]; email; phone
Receiving Institution	Name	Faculty/ Department	Erasmus code (if applicable)	Address	Country	Contact person name; email; phone

- Language
  - proof through standard tests

- Classes for recognition

Before the mobility

Table A Before the mobility	Component code[6] (if any)	Component title at the Receiving Institution (as indicated in the course catalogue[7])	Semester	Number of ECTS credits (or equivalent)[8] to be awarded by the Receiving Institution upon successful completion
				Total: …

Study Programme at the Receiving Institution

Planned period of the mobility: from [month/year] …………… to [month/year] ……………

Web link to the course catalogue at the Receiving Institution describing the learning outcomes: [*web link to the relevant information*]

The level of language competence[9] in _____ [*indicate here the main language of instruction*] that the student already has or agrees to acquire by the start of the study period is: *A1 ☐   A2 ☐   B1 ☐   B2 ☐   C1 ☐   C2 ☐   Native speaker ☐*

Table B Before the mobility	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Semester	Number of ECTS credits (or equivalent) to be recognised by the Sending Institution
				Total: …

Recognition at the Sending Institution

Provisions applying if the student does not complete successfully some educational components: [*web link to the relevant information*]

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LEARNING AGREEMENT

- During Mobility
- Changes
  - Remove
  - New
- Signature of all parties

Erasmus+

During the Mobility

Table A2 During the mobility	**Exceptional changes to Table A** (to be approved by e-mail or signature by the student, the responsible person in the Sending Institution and the responsible person in the Receiving Institution)					
	Component code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue)	Deleted component [tick if applicable]	Added component [tick if applicable]	Reason for change[12]	Number of ECTS credits (or equivalent)
			☐	☐	Choose an item.	
			☐	☐	Choose an item.	

Table B2 During the mobility	**Exceptional changes to Table B (if applicable)** (to be approved by e-mail or signature by the student and the responsible person in the Sending Institution)				
	Component code (if any)	Component title at the Sending Institution (as indicated in the course catalogue)	Deleted component [tick if applicable]	Added component [tick if applicable]	Number of ECTS credits (or equivalent)
			☐	☐	
			☐	☐	

Commitment

By signing this document, the student, the Sending Institution and the Receiving Institution confirm that they approve the Learning Agreement and that they will comply with all the arrangements agreed by all parties. Sending and Receiving Institutions undertake to apply all the principles of the Erasmus Charter for Higher Education relating to mobility for studies (or the principles agreed in the Inter-Institutional Agreement for institutions located in Partner Countries). The Beneficiary Institution and the student should also commit to what is set out in the Erasmus+ grant agreement. The Receiving Institution confirms that the educational components listed in Table A are in line with its course catalogue and should be available to the student. The Sending Institution commits to recognise all the credits or equivalent units gained at the Receiving Institution for the successfully completed educational components and to count them towards the student's degree as described in Table B. Any exceptions to this rule are documented in an annex of this Learning Agreement and agreed by all parties. The student and the Receiving Institution will communicate to the Sending Institution any problems or changes regarding the study programme, responsible persons and/or study period.

Commitment	Name	Email	Position	Date	Signature
Student			*Student*		
Responsible person[13] at the Sending Institution					
Responsible person at the Receiving Institution[14]					

LEARNING AGREEMENT

- Recognition
- Transcript of Records

Erasmus+

After the Mobility

Table C After the mobility	Component code (if any)	Component title at the Receiving Institution (as indicated in the course catalogue)	Was the component successfully completed by the student? [Yes/No]	Number of ECTS credits (or equivalent)	Grades received at the Receiving Institution
				Total: ...	

Transcript of Records at the Receiving Institution
Start and end dates of the study period: from [day/month/year] .... to [day/month/year] ....

Table D After the mobility	Component code (if any)	Title of recognised component at the Sending Institution (as indicated in the course catalogue)	Number of ECTS credits (or equivalent) recognised	Grades registered at the Sending Institution (if applicable)
			Total: ...	

Transcript of Records and Recognition at the Sending Institution
Start and end dates of the study period: from [day/month/year] .... to [day/month/year] ....

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Hochschule Düsseldorf
University of Applied Sciences

11 – CENTRE FOR DIGITALIZATION AND DIGITALITY

CENTRE FOR DIGITALIZATION AND DIGITALITY

Study Programmes:

Data Science, AI and Intelligent Systems (DAISY) (B.Sc.)

Transforming Digitality (TRADY) (M.A.)

RESEARCH FOCUS AT HSD

Energy & Environment
        (e.g. Environmental Instrumentation, Smart Grids)
Communication & Media
        (e.g. Communication Research, Sound and Vibration Engineering, Virtual Studio and Virtual Reality)
Social and Political Participation
        (e.g. Right-wing extremism, Social Economy, Social Work, Gender Studies)
User-oriented Product & Service Innovation
   (e.g. Human-Machine Interaction, AI, Process Automation)

Hochschule Düsseldorf
University of Applied Sciences

RESEARCH INSTITUTES / RESEARCH GROUPS AT HSD

- **Centre for Digital Transformation and Digitality**
- **Institute for Sustainable Urban Development**
- **Institute for Product Development and Innovation**
- **Centre for Innovative Energy Systems (ZIES)**
- **Exhibition Design Institute (EDI)**
- **Institute of Sound and Vibration Engineering (ISAVE)**
- **Institute for Research in Applied Arts**
- **Mixed Reality and Visualization**
- **Right-wing extremism and neo-Nazism**
- **Life Cycle Management**
- **Environmental Measurement Techniques**

AUDITORIUMS

STAIR CASES
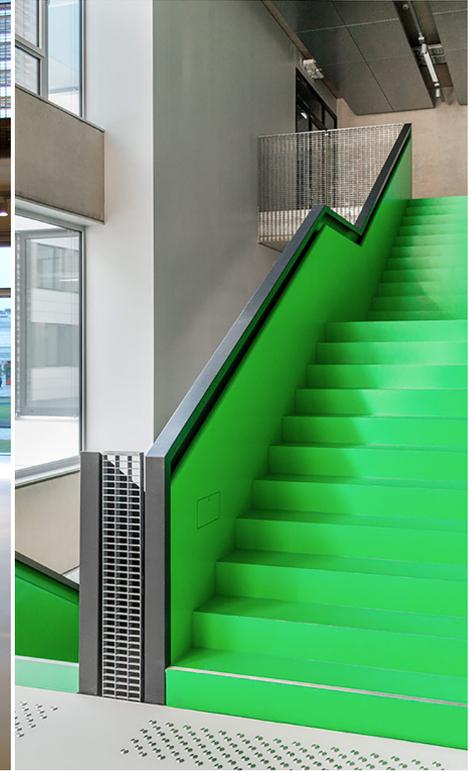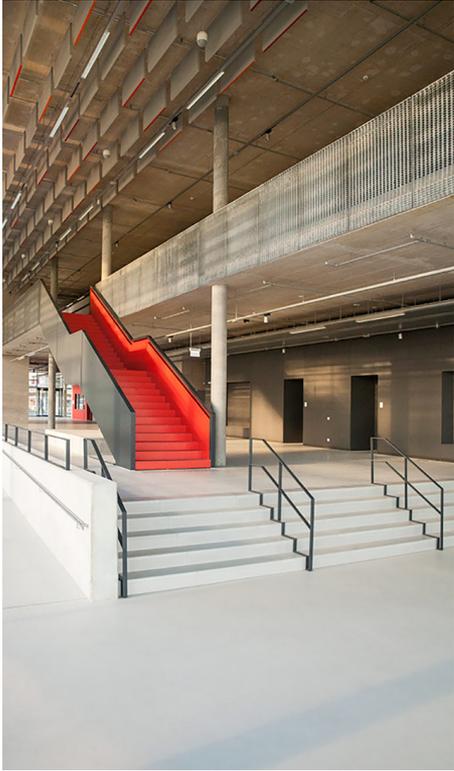
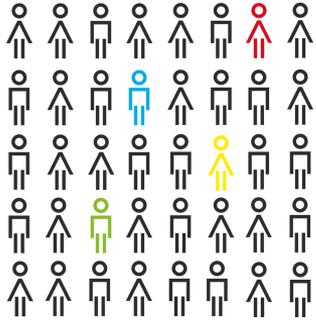**"Studying with a child": Office for Child Care**

Up-to-date information for young parents
Counseling and support
Child care by the hour
Child care during school holidays for school children
Nursery

Office for Barrier-free Education

Counseling and support for persons with disabilities and chronical illnesses
Up-to-date information
Implement offers in order to improve integration

LINKS

Faculty of Media

   [**https://medien.hs-duesseldorf.de/en**](https://medien.hs-duesseldorf.de/en)

International Office

   [**https://www.hs-duesseldorf.de/prospectivestudents**](https://www.hs-duesseldorf.de/prospectivestudents)

360 Campus tour

   [**https://web.hs-duesseldorf.de/panorama/Gebaude04.html?s=pano1039**](https://web.hs-duesseldorf.de/panorama/Gebaude04.html?s=pano1039)