



# HSD

Hochschule Düsseldorf  
University of Applied Sciences



Faculty of Media

**Bachelor of Engineering**

# Media Engineering

## Profile

This bachelor's programme qualifies you to work as a media engineer. You learn

- scientific, technical and informational fundamentals,
- basic principles and in-depth knowledge of audio and video, virtual reality, event technology as well as the field of digital media.

You can specialise in media design as well as cross-media production and develop further cross-disciplinary and key skills to shape digital transformation in economy and society.

The programme features a broad choice of elective modules during all phases of the programme. You can choose modules from a total of four lists of elective modules. Thus, you can tailor the programme according to your individual specialisation – already from semester 2 onwards.

We offer extensive practical elements during all phases of the programme: e.g. projects or practical trainings at HSD, but also

an internship, studies abroad or a research semester in the context of the external semester.

Once graduated, you can continue your studies in the consecutive three-semester master's programme Media Informatics at HSD.

**Please note:** The language of instruction is mainly German in both programmes.

## Career Options

The programme aims to qualify you as a *generalist* in media engineering. In addition, it allows you to become a *specialist* in one of the five specialisation options: *acoustics and audio*, *audiovisual media*, *virtual systems*, *event technologies* or *digital media*.

We prepare you for a career in fields which design, produce and apply state-of-the-art digital audiovisual media solutions. As a graduate, you can work e.g. in audio or video studios, media or digital agencies, corporations, broadcasting, but also in research. The resulting professional profiles are as versatile as media engineering studies – covering conception and development of media solutions as well as project management, consulting and sales.

As graduate, you can serve as the interface between informatics and audiovisual contents, technology and design, products and ergonomics.

## Admission Requirements

Please check if you meet all requirements for admission to the study programme. Further information:  
[medien.hs-duesseldorf.de/bmt-en](https://medien.hs-duesseldorf.de/bmt-en)

# SYLLABUS

## SEMESTERS 1-3

Mathematics | Physics | Digital Engineering | Electrical Engineering | Image Engineering | Technical Acoustics | Computer Graphics | Media Theory and Media Design | Informatics for Engineers | Network Engineering | Sound Engineering | Technical Practical Training: Interactive Media and Knowledge Management | Signal Processing  
Elective Modules 1:  
Audiovisual Media Design | Computer Engineering

## SEMESTER 4

Fundamentals of Business Administration | Virtual Studio  
Elective Modules 2 – advanced studies in e.g.:  
Acoustics | Sound Engineering | Room and Building Acoustics | Digital Literacy | Image Engineering | Computer Graphics | Cross-Media Production | Lighting Engineering | Noise Protection | Multimedia Story Telling | Pencils and Polygons | Student Assignment | Project: Media Engineering

## SEMESTER 5

Project Management, Media and IT Law  
Elective Modules 3 – special focus on e.g.:  
Acoustics | Sound Engineering | Image Engineering | Room and Building Acoustics | Information Visualisation | 3D Modelling | Corporate Learning | Digital Agency Simulation | Virtual Reality | Technical Exhibition Planning | Cross-Media Production | Student Assignment | Project: Media Engineering

## SEMESTER 6

External Semester (internship semester, semester abroad or research semester)

## SEMESTER 7

Individual Compulsory Elective Module (Elective Modules 4) | Scientific Work Based on a Chosen Subject | Bachelor's Thesis and Colloquium

## Further Information

### Faculty contact:

[bmt.medien@hs-duesseldorf.de](mailto:bmt.medien@hs-duesseldorf.de)

[medien.hs-duesseldorf.de/studium/beratung-vor-dem-studium](https://medien.hs-duesseldorf.de/studium/beratung-vor-dem-studium)

About the programme, admission requirements and application:

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

## Get in Touch

### Admissions Office

[zulassung@hs-duesseldorf.de](mailto:zulassung@hs-duesseldorf.de)

[hs-duesseldorf.de/zulassungsstelle](https://hs-duesseldorf.de/zulassungsstelle) (in German only)

### Student Advisory and Counselling Service (ZSB)

[studienberatung@hs-duesseldorf.de](mailto:studienberatung@hs-duesseldorf.de)

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

### International Office (IO)

[international-office@hs-duesseldorf.de](mailto:international-office@hs-duesseldorf.de)

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

### Family Support Centre

[familienbuero@hs-duesseldorf.de](mailto:familienbuero@hs-duesseldorf.de)

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

### Disability Services (ABS)

[barrierefrei@hs-duesseldorf.de](mailto:barrierefrei@hs-duesseldorf.de)

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

### Psychological Counselling Service (PSB)

[info.psb@hs-duesseldorf.de](mailto:info.psb@hs-duesseldorf.de)

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

## HSD Invites You

Visit us! Join courses during our yearly trial week (*Schnupperstudium*) and attend our information events (e.g. *Studio5-Infotag*, *Tag der offenen Tür*, *Hochschul-informationstage*, *Wochen der Studienorientierung*).

Information on all events (in German only):

[hs-duesseldorf.de/zsb\\_veranstaltungen](https://hs-duesseldorf.de/zsb_veranstaltungen)

HSD on social media  
[facebook.de/hsduesseldorf](https://facebook.de/hsduesseldorf)  
[instagram.com/hsduesseldorf](https://instagram.com/hsduesseldorf)

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