Profile Architecture

Admission requirements SS2021

For the discipline of architecture, 92 CPs have to be proven, which include comparable achievements in the following basic modules of the Bachelor's degree in architecture of RWTH Aachen University:

Area	Modul	CP
Cultural and Historical Basics	Cultural and Historical Basics I – IV	12
Arts and Design	Arts and Design I – II	12
Digital Construction Processes and Methods	Digital Construction Processes and Methods	6
Construct and design	Building Construction I and Building Materials Science	12
	Building Construction II	
	Building Technology I	8
	Building Technology II	
	Integrated Project in Architecture and Construction	10
Structures	Structures I - II	8
Building planning and design	Design	18
Design basics	Design basics	6

In addition, 6 CP must be proven in the field of "Digital Architecture". The learning objectives are software- and programming-based and are described in more detail below:

Visual programming:
- Modeling and editing graphical algorithms
- Basics of algorithmic problem solving.
- Introduction to visual programming using Grasshopper, Dynamo or similar.

Computer-aided designing:
- Understanding 3d modeling, technical illustration and 2d drawing.
- In particular
    - creating and editing polygon curves,

- o NURBS curves and surfaces,
- o subdivision and meshes,
- o solids,
- o point clouds and
- o meshes
- Basic techniques of visualization and animation

Building Information Modelling
- Basic knowledge of object-oriented modeling of components with attributes, generation of subject-specific representations such as views, sections and floor plans of the information model, simple visualizations of the entire structure with rendering and animation

Admission with condition shall be subject to § 3 (6) ÜPO. If conditions of <u>more than 12 CP</u> are necessary, admission to the Master's programme is <u>not possible</u>.

Additionally, admission to the Master's programme is not possible if conditions would be required in the area of "Digital Architecture" and "Digital Construction Processes and Methods".