FH MÜNSTER
University of Applied Sciences

MSA FB Architektur
Münster School of Architecture

Additive Manufacturing - FDM 3D Printer Ultimaker 2+

Master

Winter 22/23

ba.m7.3 Supplementary Studies I

course

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lecturer

design to print

title

Digital design methods are already widely used and give rise to new approaches in architectural design and construction. Often, one finds these through keywords such as parametric or generative design or fabrication. Coupled with digital fabrication methods such as 3D-Printing, a multitude of potentials can be unlocked for architectural design.

The aim of this course is to gain an understanding of this design approach in close connection with the fabrication method of 3D-Printing. This course is intended as an introduction to this topic and should provide a first overview.

Using the visual programming environment, Grasshopper for the CAD software Rhinoceros, a room divider is designed. In this way, the handling of this software will be introduced while simultaniously providing access to 3D-Printing.

topic

Grasshopper Primer, http://grasshopperprimer.com/de/

Tedeschi, AAD Algorithms-aided design: parametric strategies using Grasshopper
Gramazio & Kohler, The Robotic Touch: How Robots Change Architecture

Warnier, Dinge drucken: Wie 3D-Drucken das Design verändert

recommended reading