FH MÜNSTER
University of Applied Sciences

MSA FB Architektur
Münster School of Architecture

Master

Winter 23/24

ma.m7.3 Complementary Studies

course

Moritz Wesseler M.A.

lecturer

Design and Construct: 3D Printed Furniture with Grasshopp

title

In this supplementary seminar, students are challenged to develop their own parametric system for junctions that exploits the possibilities of 3D printing and offers advantages over classic connecting elements made of wood, metal or glass. The course will teach the basics of 3D printing, prior knowledge of Rhino and Grasshopper is required.

The goal is to gain an understanding of the connection between Grasshopper design and 3D printing by the end of the series of events. The course will be workshop in nature and will conclude with the presentation and load testing of the prototype part.

After this course, you will be able to understand and independently develop Grasshopper scripts, operate Rhino, design, optimize, and independently launch a 3D print. Particular emphasis is placed on applying these skills to the construction of 3D printed furniture.

topic

Introduction to 3D Printing: https://www.youtube.com/watch?v=5l_Eqcy9Z4s
Introduction to Rhino: https://www.youtube.com/watch?v=UHTUhul0el8
Introduction to Grasshopper: https://www.youtube.com/watch?v=zDDVeDldval
Book: Advanced 3D Printing with GH by Diego Garcia Cuevas, Gianluca Pugliese

recommended reading