

POLITECNICO MILANO 1863

DIPARTIMENTO DI ARCHITETTURA, INGEGNERIA DELLE COSTRUZIONI E AMBIENTE COSTRUITO MATERIALBALANCE RESEARCH

## I EDITION 2023/24 MATERIAL BALANCE DESIGN

**DIGITAL TECHNIQUES AND CIRCULAR INNOVATIONS IN ARCHITECTURE** 

## Main topics:

What is Material Balance Algorithmic Design Performance Based Design Digital Fabrication Soft Skills: Project Communication Circular Material Scouting Executive Design (DfAM) Public Space Experimantal Demonstrator

## Master I - II level

The master's course aims to train new professionals capable of approaching and managing today's complex projects by combining knowledge of digital tools with emerging bio-based materials, focusing on circularity.

The theoretical lessons aim to acquire cultural and technical-scientific knowledge which will be used for the experimental sessions with the most advanced and sustainable methodologies for the design, manufacture and prototyping of architectural systems.

Our students will become **unique and competitive figures** in the **national and international construction market** 

The master is held in **blended** mode, with theoretical online and practical sessions in presence at the **MaBa.SAPERLab** of the ABC Department. Participants will be given an opportunity to do an internship at international companies and architectural studios which look at design experimentation and future scenarios. **March 2023 - February 2024 - 60 CFU** 

Future Scenarios / Metaverse Material Balance Protocol

## mad architectsSnøhetta AAMDL CIRCLEBOLLINGER+GROHMANNRIMONDImage: Constrained and the non-standardImage: Constrained and the non-standard

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