



**POLITECNICO
MILANO 1863**

**Material
Balance
Research**



CONSTRUCTION
INNOVATION AND
SUSTAINABLE
ENVIRONMENT

MASTER I and II level

II edition 2025/2026

Material Balance Design

Digital Techniques and Circular Innovations in Architecture

The second edition of the Master's program addresses the growing demand for professionals capable of managing **complex architectural projects**, presenting a **unique opportunity** for professionals to lead in **sustainable architectural innovation**.

The program emphasizes *Material Balance* from **conceptual design** to **construction details**. Participants will gain the expertise to manage intricate projects by merging digital technology with environmental issues.

Students will also explore new principles, **tools, processes**, and **products**, redefining the designer's role in contemporary practice and empowering professionals to shape the future of sustainable architecture.

What the program provides:

- Advanced training for the evolving architecture industry.
- Cutting-edge skills in digital techniques
- Circular innovation strategies aligned with the latest trends in sustainable construction.

Main Info:

- Blended mode: online and in person at Maba.SAPERLab
- March 2025 to March 2026
- Workshops
- Internship

Main Topics

Material Balance | Performance-Based Design | Digital Fabrication | Material Bodies & Digital Phenomenology | Circular Material Scouting | Executive Design Development | Building Physics and Energy Systems for Architecture | Future Scenarios | Soft Skills

Our Partners:

mad
architects

Snøhetta

**Zaha Hadid
Architects**

ACPV ARCHITECTS
ANTONIO CITTERIO PATRICIA VIEL

ATI | Project

**Henning
Larsen**

RIMOND

BOLLINGER+GROHMANN

(A)MDL CIRCLE

a-fact
ARCHITECTURE FACTORY

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