

# MEGA

architecture | building technology | management | civil engineering



Student work from MEGA 2023

## Tutors

Alessandra Luna Navarro & Stijn Brancart

Each student works on one discipline and is tutored by the tutors of that discipline. The disciplines are: Architectural Design, Climate Design, Design Informatics, Façade Design, Structural Design, Management.

Code	AR0139
Credits	15 ECTS
Location	Netherlands
Excursion	No
Costs	-

Project type	Multidisciplinary
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Approved Master 2	Yes
Architecture design project	

MEGA centres around the collaborative and multi-disciplinary redesign of a large or tall building. In teams of 5 to 7 students you will develop an integrated design that covers the disciplines of architectural design, climate design, computational design, façade design, structural design and management. Within this team you will be responsible for one discipline and will collaborate with your team members to develop integrated design interventions that transcend the individual disciplines.

Reflecting on the future role of highrise buildings in the Netherlands, you will work on the refurbishment of an existing highrise building. Topics related to circular material use (reuse of materials, design for disassembly, adaptability, biobased materials) and climate resilience (design for a changing climate, climate disasters) will run throughout the course.

At the heart of MEGA is a collaborative and multi-disciplinary process. This is supported by a digital design environment including 3D modelling with parametric

design, BIM, performance assessment and computational optimization. The goal is to develop an informed design that is not only MEGA in scale but also in terms of environmental performance, societal value and user comfort.

During the first weeks guest lectures from renowned design and engineering practitioners will introduce you to latest innovations across the different disciplines. Through a series of workshops you will dive into specific tools or methods related to general topics as well as your own discipline. The design process starts from a conceptual design and works towards details at 1:5 scale. The process matches a realistic design process of large international projects in competition phase. The course is supported by firms like Thornton Tomasetti, Foster and Partners, Techniplan, Packhunt, DGMR, by the Dutch Highrise Association and by the Dutch municipality associated to the site.