



Aalto University
School of Arts, Design and Architecture
Department of Architecture
Building Design
ARK-E1020 Building Design Studio (12 cr)

1 (4)

Autumn 2022, September 6th – December 13th

Building Design Studio 2022



The autumn 2022 Building Design Studio calls for designs for a new architecture and design museum in Helsinki, Finland. The studio is organized in collaboration with the Foundation for the Finnish Museum of Architecture and Design. The foundation is currently planning new premises in central Helsinki.

The studio will begin with an analysis of the building site and program, and end with the submission and review of comprehensive design proposals.

The studio is as a blended course combining in-person and online teaching. Tutoring takes place on Tuesdays at 13:15–16:00. In-person sessions take place at the Undergraduate Centre, room A122a. Online sessions take place via Zoom at: aalto.zoom.us/j/4322406763

The coursework will be submitted individually. The final submission will be evaluated on scale 1–5 (0=failed). Only complete submissions will be evaluated. Late submissions will be graded with a deduction of - ½ or -1, respective to the date submitted. Late submission deadlines can be found from the course schedule.

The studio runs in parallel with the lecture course ARK-E2020. The lecture course is a mandatory requirement for participation in the studio.

Course materials are available at: <https://mycourses.aalto.fi/course/view.php?id=35468>



Design Brief

The new museum of architecture and design will be situated in Helsinki's South Harbour, in the Makasiiniranta district that is going through a complete redevelopment in the future. A natural destination for architecture and design lovers, the new museum will also be a place for learning, sharing, and coming together. A new museum building will house state-of-the-art exhibitions and forward-looking programmes for local and global audiences.

The museum provides a wide range of services and programs that invite the visitors, both professionals and greater public, to explore our surroundings and societies through architecture and design. An institution that redefines the concept of a museum yet being respectful to the responsibilities of a national museum in its field. The museum documents and collects the story of Finnish architecture and design but it also co-creates and develops sustainable futures together with its communities. The museum provides a new international meeting place in the heart of the city centre and enables visitors to pop in for a quick visit or spend the whole day.

Six design drivers guide the design of the museum towards its ambitious goals.

1. The new AD Museum is sustainable and responsible in all measures. This includes all aspects of sustainability: environmental, social, cultural, and economic. Creating social cohesion is a big driver in planning spaces and programs.
2. The museum is a venue of doing and experimenting. Instead of just looking and learning, the museum allows its users to be active participants of making and creating.
3. The museum has a high sensitivity and skill to listen and co-design with people: it is made and developed together with the community.
4. The museum is a multi-disciplinary time machine and blender: it seeks to find new perspectives by combining unlikely domains, past and future.
5. Partners and stakeholders will use it to engage with their peers and audiences. The new museum functions as a platform.
6. The museum is more than just a physical dimension. It is fully accessible through digital and virtual and thus creates a fluent multichannel experience. The activities in the museum building focus on the tangible, social experiences.

More information can be found at: www.admuseo.fi

Approach to Teaching

Our approach is centered around the notion of the architect as a generalist. We encourage you to approach architecture holistically. We believe that the three attributes of architecture articulated by Vitruvius – strength, utility, and beauty – are as relevant today as they have ever been.

While appreciating the past, we do our best to provide you with a relevant skillset and the practical knowledge necessary for designing buildings in a contemporary setting. The environmental impact of construction, economic framework, and the social responsibility associated with the profession will be addressed with appropriate emphasis.

Learning Objectives

Scope

In this master's level course, you will learn to develop a design concept for a large public building. We focus primarily on concept design with some elements of technical design included.



Autumn 2022, September 6th – December 13th

Core Competencies

In this studio you will learn to:

- Plan site use and logistics
- Develop building volumes and façades
- Compose spaces and sequences
- Control proportions, scale, and rhythm in architecture
- Solve a building program
- Design economical, sustainable, and resilient systems
- Draft a construction detail
- Draw floor plans, sections, and elevations
- Work with scale models
- Produce visualizations
- Prepare presentations
- Communicate clearly and precisely
- Manage schedules
- Evaluate progress

SDG's

Aalto University is committed to advancing the UN Sustainable Development Goals as part of its teaching. Relevant targets from SDG7 (Affordable and Clean Energy) and SDG12 (Responsible Consumption and Production) will be addressed in this studio. Specifically, you will gain understanding of the use of renewable energy sources, energy efficiency, and resource efficiency in construction.

Submission

Presentation Sheets

	Concept Review	Midterm Review	Final Review
DIN A0 portrait, pdf, file size max. 20MB			
Site Plan Roof plan. Hard landscaping and green areas, vegetation, elevation marks, entrances, vehicle traffic and delivery, parking, bicycle and pedestrian routes.	schematic	1/500	1/500
Floor Plans Room tags according to space list. Load-bearing structure must be clearly indicated.	–	1/200	1/200
Elevations and Sections Relevant elevations and sections necessary for the understanding of the design concept.	optional	1/200	1/200
Detail Partial section and elevation of the façade. Schematic representation of relevant building systems.	–	1/20	1/20
Flow Diagram Schematic representation of program and circulation including all floors. Colors according to space list.	schematic	schematic	finished



Autumn 2022, September 6th – December 13th

Visualizations	volumetric	schematic	finished
One exterior and one interior view from eye level without perspective distortion.			
Project Description	-	-	max. 3000 char. incl. spaces
Technical summary of the design concept, including brief description of the structural system, building materials, and other relevant information regarding construction.			

Coursework is submitted via MyCourses website. All submitted material, including visualizations, must be original and produced by the author(s).

Forms

	Concept Review	Midterm Review	Final Review
Space List	-	-	xlsx
Evaluation Matrix	-	-	xlsx

Scale Model

	Concept Review	Midterm Review	Final Review
Volumetric Scale Model 1/500	optional	schematic	finished
Model base according to specification.			

Volumetric scale model is required for each in-person session, including tutorings and reviews.

Teachers

Pirjo Sanaksenaho
Architect, Professor

Esa Ruskeepää
Architect, Lecturer

Kristian Forsberg
Architect

Rute Morais Peixoto
Architect

Contact

Esa Ruskeepää
+358 50 3369094
esa.ruskeepaa@aalto.fi