

seminars, master- and graduation
projects architecture + urbanism
semester B, 2023-2024

eindhoven school of architecture,
urban design and engineering

23
24



7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

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Masterprojects Architecture

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7QX5Mo, quartile 3

Seminars Architecture and Urbanism

Introduction

Seminars Architecture and Urbanism

ADEo1 **Suisse Concreteness**

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AHTo1 **Eindhoven Review of Architecture**

dr. Sergio M. Figueiredo
s.m.figueiredo@tue.nl

TAo1 **Sitting**

ir. Ruurd Roorda, Femke Stout MSc
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UUAo1 **Architecture and the Lived City**

drs. ir. Like Bijlsma, ir. Jochem Groenland, MA B.arch. Daryl Mulvihill
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Introduction

Seminars Architecture and Urbanism

This brochure aims to give an overview of the themes and subjects that will be offered in the coming semester, so that you can make an informed choice you can be happy about.

There are four chairs offering seminars:

- Architectural Design and Engineering (ADE) - prof. ir. Juliette Bekkering
- Architectural History and Theory (AHT) - dr. Jacob Voorthuis and dr. Sergio M. Figueiredo
- Transformational Architecture (TA) - ir. Ruurd Roorda
- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

The short introductory descriptions of the seminars given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some seminars slightly alter their theme or emphasis as a result of changes in staff.

Enrolling in a seminar:

- 1 You need to enroll in Osiris before the closing of the registration term (January 7, 2024). If you register too late the first possibility to start with your seminar is Sem B. 2023-2024, quartile 4.
- 2 We work with a maximum amount of 10 students per seminar. So the subscriptions are according to the principle 'first come, first served'. If the seminar of your first choice has no places left, subscribe for another one.
- 3 During the first week of the new quartile students are invited by their tutors to visit the seminar.

Be aware: If the number of registrations for a specific seminar does not reach a minimum of ten students, it is possible that this specific seminar will not proceed!

Looking forward to meeting you in our seminars!



Suisse Concreteness

Image 01
Helsinki Dreispitz in
Basel, Switzerland.
Retrieved from: <https://www.herzogdemeuron.com/projects/312-helsinki-dreispitz/>

Image 02
Signal Box in Zurich
Suisse. Retrieved from:
<https://www.gigon-guyer.ch/>

In this seminar we will explore how a distinct concrete structure can directly form the architectural expression of a building. We do this by first researching and analysing several buildings by different architects like Herzog & de Meuron and Gogon/Guyer architects. Secondly, we will perform several challenging hands-on experiments where you will make scale models using concrete in which the theme “Presence”, of the Concrete Design competition 2024 is the common thread.

The seminar will include a study trip to Suisse to experience the work of these architects and meet with them (partly sponsored by the Betonhuis). The interviews (physical or online) will be a part of your research. In a final concrete-workshop you will put the lessons you have learned from your analysis to practice in a condensed design challenge. In the hands-on workshop students in teams of two will design and make a cubic model (measuring max 0,50x0,50x1,0m) researching the architectural expression of a concrete structure. The space needs to have a strong architectural expression and spatial quality using a very limited amount of concrete to achieve maximum results.

The result of the seminar will be a joint book about the analysed buildings. Together with all of the concrete models this will be displayed in a beautiful exhibition. Also, all the students will enter the Concrete design Competition 2024.

This seminar places great emphasis on the careful study of existing buildings and design principles, and, in addition to that makes extensive use of various explorative, investigative and presentation techniques and structural design studies.

ir. Tom Veeger

ir. Siebe Bakker

7QX5Mo
semester B, quartile 3
5 ects
max. 15 students



Eindhoven Review of Architecture

Image 01
New York Review of
Architecture as the
Eindhoven Review of
Architecture, 2023

In the past few years, architecture criticism has been considered dead several times over. While that has never really proven to be true, the reality is that architecture criticism has been in a constant state of crisis. As such, it has become more difficult than ever to not only assess what constitutes architecture quality, but also to articulate it to the general public.

The seminar Eindhoven Review of Architecture intends to address the current absence of architectural criticism by supporting the emergence of a new generation of architecture critics. In this seminar students will thus develop and sharpen their critical thinking, focusing equally on architectural artifacts as well on the broader conditions for their production and consumption. Ultimately, the objective of this seminar is to support the emergence of an architecture criticism that, while encouraging intellectual depth and curiosity, remains accessible and understandable to everyone.

Throughout this course students will engage with particular issues related to contemporary architecture and investigate how certain ideas relate to specific architectural forms. The development of such understanding will assist students in shaping a critical position towards current architectural design practice of design (both their own production and that of others). Each week, students will conduct a series of close readings of seminal projects and texts (both primary and secondary sources) and discuss them during the seminar meetings.

Such discussions will provide a comprehensive knowledge through multiple perspectives to particular issues/themes of interest to architecture or urbanism. This will provide students with a deeper understanding of the relation between architectural discourse and architectural practice. Beyond presentations and discussions, students will prepare a first issue of the Eindhoven Review of Architecture, which will be composed by essays that further discuss specific (built or unbuilt) projects in Eindhoven and other elements related to architecture practice, education and discourse, positioning them within broader critical contexts.

dr. Sergio M. Figueiredo

7QX5Mo
semester B, quartile 3
5 ects
10 students



Sitting

Image 01
Arne Jacobsen in The
Egg, photo: Erik Petersen
/ Ritzau Scanpics

The main reason behind this seminar is to gain a greater sensitivity towards architectural design. A seating element will guide you through the entire design process on a smaller scale. Researching existing seating elements quickly introduces you to the signature of an architect. A piece of furniture reveals how an architect thinks about the use of an element and the process of creation. This seminar invites you to do the same; the small mirrors the large and vice versa.

The structure for this seminar is simple: What does it mean to sit? Research into chairs designed by architects, essay, own design and presentation.

Explore the nature of sitting and its importance in daily life. Emphasize the role of seating in various contexts – ritual, social, and ergonomic. Research the dimensions and proportions that contribute to the comfort or discomfort of a seating element. Analyse several existing chairs designed by architects and examine their unique features. Relate each chair to the architectural attitude and vision of the architect: write a short essay.

Develop 20 sketches for your own design. Create scale models of several versions of your design. Select materials that align with both aesthetic and ergonomic considerations. Be conscious of where the materials come from and how to work with them. Develop detailed technical drawings. Construct the seating element yourself in scale 1:1. Redraw the technical drawings based on insights gained during the construction process. This is an iterative process.

Compile the research, design process, and final results into a comprehensive booklet. Summarize key findings and insights from the analysis and design phases. Discuss the broader implications for design, comfort, and the role of seating in our daily lives. Address what you learned for yourself as an architect.

This seminar is aimed at architectural craftsmanship. Understanding and realization for the design part are achieved with the knowledge of the hand.

Femke Stout MSc

ir. Ruurd Roorda

7QX5Mo
semester B, quartile 3
5 ects
10 students



Architecture and the Lived City

Image 01
Jacques Tati sketching
Playtime. Retrieved from:
hansjager.blogspot.com

The relationship between the conceived space and lived space is a subject that takes on different meanings in different historical periods. Philosophers described this relationship, urban planners and architects designed ideal cities, palaces, and homes and clients had some of these designs realised. In this seminar the transformation of the city by introducing new dwelling cultures is the object of study.

Not only the architectural discipline reflected on the design of new dwelling cultures. There is also a large body of cinematographic work that evolves around this subject. Particular in France there are several film makers that take the design of modern living and dwelling cultures and their effect on human and social relations as a main topic. These film makers were inspired by French philosophers like Henri Levevre, Jean Paul Sartre and Simone de Beauvoir.

In this seminar we will study different cinematographic interpretations of Paris by analysing the work of film makers like Jacques Tati, Eric Rohmer and Jean Luc Godard. Their work reflects on the modernisation -sometimes in architecture, sometimes in landscape and urbanism. Does it change everyday life of old and new inhabitants, does it produce new lifestyles and spatial and social relations? How does it affect the behaviour and psychology of individuals?

By analysing and producing cinematographic material, these relationships are being studied and compared. The outcome of this seminar is a nowadays perspective on the relationship between the conceived space and lived space.

Please take into account a study trip is scheduled in March 2024.

MA B.arch. Daryl Mulvihill

ir. Jochem Groenland

drs. ir. Like Bijlsma

7QX5Mo
semester B, quartile 3
5 ects
max. 15 students

7QX5Mo, quartile 3
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7QQ5Mo
International Academic Workshops

7QX5Mo, quartile 4

Seminars Architecture and Urbanism

Introduction

Seminars Architecture and Urbanism

ADEo2 The Digital Craft of Clay

dr.-ing. Cristina Nan

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AHTo2 AHT, The Videogame

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UUAo2 New Living Concepts: Housing, Health, Care

dr. Oana Druta

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Introduction

Seminars Architecture and Urbanism

This brochure aims to give an overview of the themes and subjects that will be offered in the coming semester, so that you can make an informed choice you can be happy about.

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- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

The short introductory descriptions of the seminars given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some seminars slightly alter their theme or emphasis as a result of changes in staff.

Enrolling in a seminar:

- 1 You need to enroll in Osiris before the closing of the registration term (March 24, 2024). If you register too late the first possibility to start with your seminar is Sem. A. 2024-2025, quartile 1.
- 2 We work with a maximum amount of 10 students per seminar. So the subscriptions are according to the principle 'first come, first served'. If the seminar of your first choice has no places left, subscribe for another one.
- 3 During the first week of the new quartile students are invited by their tutors to visit the seminar.

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Looking forward to meeting you in our seminars!



The Digital Craft of Clay

When Tradition meets AI & Robots

Image 01
Tim Fu AI-designed a column that was then hand-carved in stone. Retrieved from: <https://www.dezeen.com/2023/08/16/ai-aesthetics-classical-era-tim-fu-aitopia/>

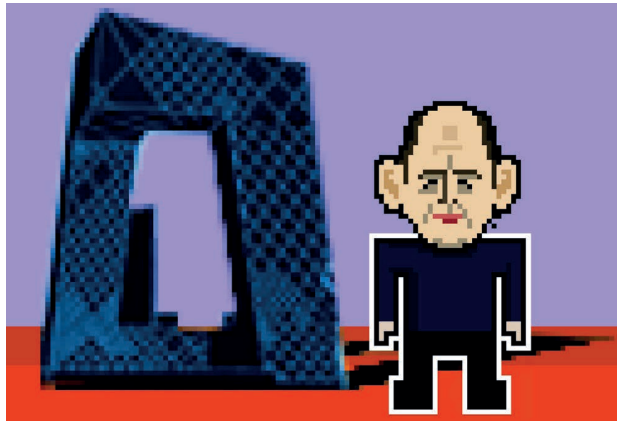
Embark on a journey into the future of architectural design at our seminar on additive manufacturing with clay and the integration of artificial intelligence (AI). This event marks a convergence of traditional craftsmanship, cutting-edge technology, and the limitless possibilities presented by the fusion of clay-based 3D printing and AI-informed design.

Students will explore the symbiotic relationship between additive manufacturing, clay, and AI, unlocking new dimensions in architectural innovation. This seminar on additive manufacturing with clay offers an insightful exploration into the intersection of traditional ceramics and robotic fabrication. This course delves into the design opportunities offered by AI and additive manufacturing techniques in the realm of clay-based creations and its potential for advancing architectural design. Clay has a long tradition in architecture: from rammed earth bricks to tiles and structural components. Attendees can expect a comprehensive overview of the additive manufacturing process, from digital design to the physical realization of intricate small-scale clay structures.

Participants will gain practical insights into the latest advancements in the fields of AI and additive manufacturing, including discussions on material considerations and their impact on design considerations and the use of the robot, computational design methodologies, and the integration of these digital tools in the creative process. The seminar aims to bridge the gap between traditional craftsmanship and robotic fabrication, highlighting how additive manufacturing can push the boundaries of what is achievable with clay as a versatile medium. Throughout the course students will engage with research on AI, earth and clay as construction materials, the potential and limits of robotic fabrication, followed by a series of design assignments. You will receive an introduction to Rhino 8 and Grasshopper. Join us as we redefine the boundaries of what's achievable in architecture through the harmonious integration of clay, additive manufacturing, and artificial intelligence.

dr.-ing. Cristina Nan

7QX5Mo
semester B, quartile 4
5 ects
10 students



AHT, The Videogame

Image 01 & Image 02
ArchiPix, 8-bit architects,
Rem Koolhaas and Mies
van der Rohe, 2013
(Federico Babina)

While affecting everyone, architecture has remained elusive to most. Commonly enveloped in a shroud of complexity, drawing conventions, and disciplinary jargon, architecture has erected significant barriers to entry to those outside the profession and the discipline. This condition is particularly experienced in the realm of architecture history and theory which remains a mystery to most non-architects (as well as to quite a few architects and students). In order to make the knowledge and discussions on architecture history and theory more broadly available and engaging, this seminar aims to develop a video/mobile game exploring the various issues and ideas that constitute architecture history and theory.

This seminar will thus not only analyze video (and mobile) games that have strong architectural qualities as well as precedents for the introduction of game mechanics in the dissemination of knowledge, but also discuss various historical periods, their ideas and buildings. Through the medium of a video/mobile game, this seminar aims to develop an engaging (and entertaining) way to discuss the various issues and ideas that constitute architecture history and theory and thus make those ideas and issues less intimidating for those without much knowledge on architecture. Ultimately, this seminar will serve as a tool to empower various audiences to not only better understand and appreciate architecture history and theory, but also to engage with architecture more purposefully.

dr. Sergio M. Figueiredo

7QX5Mo
semester B, quartile 4
5 ects
10 students



New Living Concepts: Housing, Health, Care

Image 01
Marechaussekazerne
Maastricht, transformed
into assisted living for
young people at risk of
homelessness. Retrieved
from: <https://www.rijksvastgoedbedrijf.nl/actueel/nieuws/2021/12/17/kazerne-maastricht-naar-opleidingsproject-jongeren>

New living concepts (including some re-valued older one) have come to the fore as solutions to the crisis of home and housing in contemporary societies. Co-housing, co-living, tiny-houses, cooperatives, flex-housing, shared living, serviced accommodation, homesharing, intergenerational co-living, ecovillages, hofjes, to name just a few, are living concepts that promise different approaches to tackling affordability and accessibility issues in housing. From a social perspective, they promise healthier community life, more self-reliant aging in place, easier transitions out of the parental home, more flexible ways of dealing with unforeseen situations and transitional housing needs. They also make claims about tackling the climate crisis, with more judicious use of materials and energy, and the smart use of technology to bring down environmental impacts, to name just a couple.

Will new living concepts become a prominent alternative to conventional housing? How can we critically assess the positive and negative aspects of different propositions? What are the implications for inclusive urban living? How about circular building and architectural design? In this seminar we will read a set of recently published journal articles and book chapters examining the topics of health and care in the context of housing design/planning/policy. We will discuss these in relation to current debates about health and social inequalities, and the role of housing as infrastructure of care. Students will be expected to read and critically reflect on the texts provided. Weekly assignments will include summarizing and presenting the texts, participating in debates and bringing new knowledge to the table.

In addition, each student will conduct independent research into ONE housing concept of their choice. Independent research can be structured according to the student's methodological interest, and can include in-depth field research, secondary data analysis, or research through design explorations. The products of the seminar will be included in the New Living Concepts digital publication (found in <https://oanadruta.substack.com/>).

Keywords:

Scales: Neighbourhood, block, building; **Themes:** Housing, social inclusion, health and wellbeing; **Competencies:** people centred research, critical literature analysis, fieldwork, design exploration

dr. Oana Druta

7QX5Mo
semester B, quartile 4
5 ects
10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

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7QQ5Mo
International Academic Workshops

7QX2Mo, quartile 3-4

Masterprojects Architecture

Introduction
Masterprojects Architecture

ADE01 Amsterdam Metropolis
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ADE02 Computational Clay Systems
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ADE03 Other Functions
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AHT01 Urban life after capitalism
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RA01 Tectonic Exercises
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RA02 Il Monastero Incompiuto
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TA01 Richness
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UUA01 A Home for Youth
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Introduction

Masterprojects Architecture

This brochure aims to give an overview of the themes and subjects that will be offered in the upcoming semester, so that you can make an informed choice you can be happy about.

There are five chairs offering masterprojects:

- Architectural Design and Engineering (ADE) - prof. ir. Juliette Bekkering
- Architectural History and Theory (AHT) - dr. Jacob Voorthuis and dr. Sergio M. Figueiredo
- Rational Architecture (RA) - Anne Marie Peters
- Transformational Architecture (TA) - ir. Ruurd Roorda
- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

The short introductory description of the studios given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some projects alter the theme or emphasis slightly as a result of changes in staff.

Enrolling in a masterproject:

- 1 You need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your Master project is Sem A. 2024-2025.
- 2 You have to subscribe with a first, second and third choice. There will be a period that Osiris will put you on a 'waitinglist', don't panic! This only means that you are registered as a student to one of the masterprojects of your choice. **After, January 8, 2024 you will be assigned to your final masterproject.**
- 3 During the first week of the new quartile students are invited by their tutors to visit the master project of their first or (if that particular project has been oversubscribed) their second or third choice.
- 4 The tutor of your 1st master project will be your mentor, for the duration of your whole master program.

Be aware: If the number of registrations for a specific master project does not reach a minimum of ten students, it is possible that this specific project will not proceed!

Looking forward to meeting you in our masterprojects!



Amsterdam Metropolis

Image 01
Zuidas Amsterdam
<https://www.flickr.com/photos/amsterdam-zuidas/53335407656/>

Image 02
"The Valley" MVRDV
Zuidas Amsterdam
<https://www.flickr.com/photos/amsterdam-zuidas/53346798083/>

In our contemporary times, we are facing serious challenges; rising population, CO₂ emission and mobility. These enormous challenges require rethinking the role architecture can play in addressing these issues and the position of the architect. In this research and design studio we will address these, taking a specific focus on social sustainability and designing for public space. What if we were to think positively about extreme density and super-high-rise and its architectural implications. This project will challenge you to find your position as an architectural designer.

We will start our research in the context of Amsterdam Zuidas; study the Amsterdam-Zuid Station Expansion, recent developments of the Zuidas, and its future plans in relation to Schiphol Airport, located in its vicinity. Following this we work from the preposition that height restrictions in relation to flight paths will be investigated, documented and released.

Our main question is to define the architectural quality of space, within the context of super high-rise. We will meticulously study exemplary examples of key thinkers.

We aim for a result where Amsterdam Zuidas can be unleashed into the 21st century with a new scale of super-towers, (up to 500m) bringing Amsterdam into maturity; with more space for quality residential areas and high density program, based on the vision of a greener future, a high-tech future, and clever mobility; saving on distance, transport, car travel; in short: focus on reinvigorating the physical environment with deeper human relationships.

Students will work in groups to develop an urban model. Thereafter an assumption on change of rules will be made, followed by mapping of information, studying the potential of varying ways and possibilities to generate progress & new qualities. Students will explore individual ideas in detail by designing one single building (tower or station) within the context of the changing domain of the Zuidas, giving proper design attention to the outdoor public space directly adjacent to the building. Individual designs will update the group model of the Zuidas, and will be placed back into the urban massing model; resulting in 'a scaled-up version of Amsterdam Zuid'.

ir. arch. Mark Hemel

ir. Barbara Kuit

7QX2Mo
semester B, quartile 3-4
10 ects
20 students



Computational Clay Systems

From Computational Design to Digital Fabrication

Image 01 & Image 02
Computational Clay
Façade System at DDW
2023, Wunderkammer
Graduation Students
TU/e, instructors Cristina
Nan & Mattia Zucco

Advanced digital fabrication and computational design are profoundly changing the nature of architecture and the paradigm under which the construction industry operates. Their impact on these sectors is heightened when used in combination with sustainable and low-carbon materials, such as clay, mud or earth-based systems. The core of this studio is anchored around additive manufacturing for sustainable architecture.

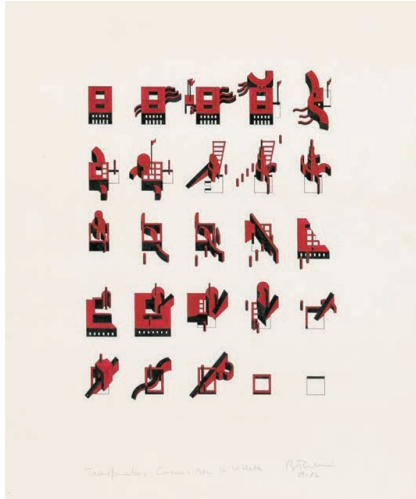
This master studio focuses on the design and the production of **a large-scale parametric structure based on 3D clay printing. 1:1 prototyping** is an essential component of this studio, allowing students to experience all parts of the fabrication and assembly process. Students will participate in the computational design of a full-scale 3D clay printed protostructure to be built on the campus of the TU Eindhoven. The structure will showcase advanced material patterning and performance-based design. The **digital tectonic design** of the installation makes systematic use of geometry, structural principles and material behaviour. Constraints of the material (or material systems) and of the physical realities of making and assembly are embedded within the computational process of design. Attention will be given to the curation of joints and of the assembly sequence.

The studio follows a holistic approach: from design to fabrication. Students will follow the steps from computational design, technical detailing, project management and logistics, the fabrication of the elements and the assembly of the full large-scale structure on the campus.

You will build up a theoretical and practical knowledge on computational design, robotic fabrication and parametric performance-based design principles. Throughout the 16 weeks of the course, you will be introduced to **advanced parametric design** using Rhino 3D and the visual scripting plug-in Grasshopper. Embedded in the course are a set of carefully curated workshops on advanced algorithm-aided design, run by the computational specialist Alessio Vigorito in collaboration with Assist. Prof. Cristina Nan.

dr.-ing. Cristina Nan

7QX2Mo
semester B, quartile 3-4
10 ects
20 students



Other Functions

Image 01

The pleasure of architecture. Follies by Bernard Tschumi for Parc La Villette in Paris, 1982.

Collection Canadian Centre for Architecture, Montréal

Retrieved from:

<https://www.cca.qc.ca/en/search/details/collection/object/276750>

Image 02

(Accidentally) Sacral Space. Repurposed Gasometer in Oberhausen. 1927, 1993.

Retrieved from:

<https://www.amazon.nl/Gasometer-Oberhausen-industrial-heritage-cathedral/dp/383752115X>

Most architecture has a more or less utilitarian function (but good architecture always transcends a narrow strictly serving role!). There are also genres of architecture though, where practical utility is not even at the center stage to begin with:

The first one is the folly: an architectural work of art; an expression of spatial, material and formal play, with its own set of rules. Follies don't serve a practical purpose; they are free from utilitarian notions of function. Follies might have minor casual uses such as viewpoint or meeting point in public space, but nothing that resembles the design brief of e.g. housing, offices, museums. They are festive exercises in architectural playfulness and pleasure.

The other genre is that of the sacral. Traditionally a place for the gods or spiritual experiences. Here too, practical functions are subordinate to non-utilitarian functions such as providing the conditions for awe, for silence and contemplation, for light and enlightenment, for positive disintegration, for inner experience.

What can be found in these worlds? How do they work (on us)? How to create a folly? How to create the sacral? And what do these excursions to outward positions tell us about central stage functional design?

In this project we explore both genres subsequently (Q3 folly, Q4 the sacral), by philosophical and theoretical exploration, as well as by design experimentation and elaboration. The project involves reading and writing, design (method) research and development, architectural engineering and meticulous modelmaking.

ir. Hajo Schilperoort

7QX2Mo

semester B, quartile 3-4

10 ects

10 students



Urban life after capitalism

Image 01

Illustration for the project call Urban transformation capacity building through arts and design, 2023 (JPI Urban Europe Urban Transformation Capacities, ENUTC)

The maxim, “It is easier to imagine the end of the world than the end of capitalism,” encapsulates the pervasive influence of capitalist realism. Failure to envision societies beyond capitalism, however, may lead to the impending demise of our world through environmental catastrophe and social disintegration. Cities, which have often acted as vehicles for capitalism production and consumption—from high-tech campuses to luxury condominiums—are increasingly understood by a growing number of environmental economists, urban planners, geographers, sociologists as the places to imagine, enact and implement an optimistic post-growth, anti-capitalist agenda. They envision a world guided by values such as solidarity, conviviality, and well-being, challenging architects, urban planners and designers to translate those ideas into real projects, buildings, and cities that can inspire change and lead the way forward.

This studio will therefore explore, imagine, and present the possibility of anti-capitalism and post-growth societies by discussing, selecting, and analyzing exemplary urban practices and architectural projects pointing towards the future. It will encourage exploration of how capitalism can be transformed from within, urging creativity to propose architectural and urban designs concepts that prompt discussion and stimulate the imagination, answering this deceptively simple question: What might urban life after capitalism look like?

The format of this studio is just as important as its content, since you will experiment with an alternative discursive territory for architecture: architecture exhibitions. Specifically, this research studio will culminate in an exhibition that students will organize from start to finish. Thus, this exhibition will be curated, organized, produced, and built by students in order to be installed and presented at Plaza Vertigo at the end of the semester. Since students will develop curatorial concepts, translate them into an installation, and finally build them, the exhibition itself will form the basic design task for this studio. This exhibition, however, is to challenge the conventional presentation of architectural ideas and instead inquire how these can be presented as spatial experience.

This studio will be supported by dr. Oana Druta (UUA) as a guest teacher.

dr. Sergio M. Figueiredo

7QX2Mo
semester B, quartile 3-4
10 ects
10 students



Tectonic Exercises

Image 01
Bagsvaerd Church,
Copenhagen, by Jørn
Utzon - picture Wouter
Hilhorst

*The church the Danish architect Jørn Utzons designed in Bagsvaerd, near Copenhagen, is a beautiful example of how construction, the logic of making, and the utilisation of the specific qualities of materials can be made to work together to achieve architecture in the true sense of the word. In this church the materials used, the way they are used for the construction, the way this construction organises space and coincides with the typology of the building, the way the materials, construction and typology determines the way daylight enters the building, and these four together – materials, construction, typology and daylight – constitute an inextricable unity in complete harmony with the function of the building. In this way this church can be seen as a perfect illustration of Framptons saying “The full tectonic potential of any building stems from its capacity to articulate both the poetic and the cognitive aspects of its substance” (Kenneth Frampton, *Studies in Tectonic Culture*). This design project will explore this tectonic potential.*

In architecture, tectonics can be understood as the relationship between experience and expression. The expression is partly determined by how the architectural object is made. We organise the design process so that the process of making has the most significant possible influence. We investigate the tectonic relationship while the object is created. How does that which is inextricably bound to the earth - the massive, monolithic, eternal - relate to that which is assembled and composed, filigree, temporary and impermanent? What is the relationship between bearing and being carried? What is the relationship between structure and construction, skeleton and skin? In what way can the interior be experienced on the outside and to what extent do outside influences penetrate the interior? To what size do these relationships resonate in the game of concealing and revealing? What meanings and connotations emerge? Which program suits a certain quality? How does the oppressive relate to the rising, the narrowing to the receding, mobile to immobile, soft to concrete, cold to heat? Which sensory areas are addressed? How do soft surfaces, soft light, soft sounds and colours interact? Or how do light materials, soaring suggestions of motion, clear acoustics and light falling from a high merge? What atmosphere is created? What state of mind resonates with this atmosphere? We try to answer these questions by describing and discussing the object in its presence. *The exploration will be done in different staged exercises. Specific literature on the subject, in bilateral relationships with the subsequent exercises, will aim at a range of tectonic aspects.*

dr. ir. Ralph Brodruck

ir. Renato Kindt

7QX2Mo
semester B, quartile 3-4
10 ects
10 students



Il Monastero Incompiuto

Image 01
Sources deliberately
not reported – we want
to keep the building a
secret.

This master project is part of a series of redevelopment projects in which the transformation of architecture is crucial. The existing building as a basis for re-use -and coherent with that- the re-designing of the city and its surroundings. The question for the architect is to progress on existing qualities and to add new qualities. Or in other words; how to make a ‘new’ architecture upon and within ‘old’ architecture?

In the first part of the project the focus is primarily on the existing buildings and the program, the context is being disregarded. On the one hand the typology is being analysed thoroughly by means of reference projects and texts, on the other hand the quality of the existing by means of the following concepts: structure, materialization and scale.

On the basis of this analysis an individual design is made for a given program. The context in the widest sense of the word is being analysed. Besides, the existing (hidden) qualities of the existing building are being explored in depth by means of the following concepts: light, texture, detail, sequence. The initial design in which typology, structure, materialization and scale are central will finally be embedded within the context, whereby one concept obtained from the second analysis serves as “Leitmotiv”. Research by design and representing the analysis and the design by means of different kinds of drawings, collages and the making of several physical models runs as a red thread through the project.

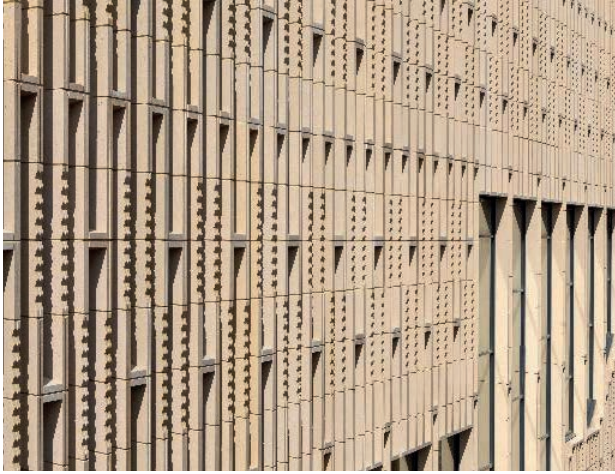
Maximum number of participants: 10

Excursion to Naples around the end of quartile 3 (exact dates have yet to be determined).

Guest lecturer: Associate Professor Renato Capozzi

Ir. Anne Marie Peters

7QX2Mo
semester B, quartile 3-4
10 ects
10 students



Richness

Image 01
Cultuurhuis Rozet,
Neutelings Riedijk
Architecten, 2013,
retrieved from [https://
en.wikiarquitectura.com](https://en.wikiarquitectura.com)

Image 02
Casa de las Conchas,
Salamanca, Spain, arch.
Rodrigo Arias de Maldo-
nado, 1517, retrieved
from [http://gastrono-
micsspain.com](http://gastronomicsspain.com)

In this project we will focus on the visible building skin -the façade- and its articulation, as a starting point for architecture.

The façade as an integral part of architectural design has suffered from neglect. During the 20th century the façade has become the by-product of a quest for efficiency. Designing structure and plans –the storage trays for program-, were favoured as an architectural focus. Usually the resulting style of the corresponding façades was either minimalism, or, later, add-on historicism –both in their own way provoking the integrity of architecture.

Today these ‘efficient’ buildings are being demolished rapidly – because despite their efficiency they can’t keep up with the pace of changing programs and regulations, and... because most of these buildings lack architectural qualities like articulation.

The façade is the first thing you see of a building. Because of this it deserves the architect’s principal attention. The façade is capable of communicating a message to the public. That message may refer to the content of the building in a symbolic way, it may mirror the building’s generating structure, it may express the way material is put together, it may emphasize certain parts of the building, may use plasticity of its surface, may use elements that are not strictly expedient.

May... Or may not. Possibilities are endless

It is a missed opportunity not to make use of these possibilities.

The human race in its diversity and entirety deserves a rich and complete architecture.

A choice for a style should not be predetermined, nor by economy nor by what other reason. It will preferably be the result of a rational consideration, in which context, commissioner, program, user and time are the important criteria. The outcome of it may vary widely, from minimalism to maximalism.

ir. Ruurd Roorda

7QX2Mo
semester B, quartile 3-4
10 ects
10 students



A Home for Youth

Image 01
Transformation
Eksterhof, The Hague
(Masterstudio A Home
for Youth 2022) - Thérèse
van Rijckevorsel

Housing is a right. The shortage of affordable housing is a major problem in the Netherlands. Partly due to the growth of the TU/e and other educational institutions, there is a great demand for student housing in particular. While the importance of a stable housing situation is increasingly recognized as a precondition for personal development, the national statistics agency (CBS) estimates that in 2022 approximately 5,100 young people (aged 18 to 27) in the Netherlands were homeless. These numbers are received with suspicion by professionals, and it is estimated that the actual number is much higher. Think of students who sleep on the couch of a friend, or in tents on campus when the academic year starts. It therefore goes without saying that housing opportunities are also being looked at outside Eindhoven.

Simultaneously, a major transformation is imminent in Helmond's station area. Earlier this year, the area vision for the redevelopment of Helmond's station area is approved. The vision envisions an urban mix of living, shopping, working and accommodation in which the station area will (once again) become part of the city centre. This means an enormous transformation and densification task. In the coming years, 10,000 new homes will be developed around the centre, 4,000 of which will be in the station district. Increasing the social diversity of the area with affordable housing for youth is part of the task.

In this studio we will explore the transformation possibilities and development of new living areas in specific areas of the station area, in close collaboration with the municipality of Helmond. Within the vision three subareas are identified to further investigate through design research. The studio focuses on architecture students who also have an interest in the urban scale.

This project is part of the Jongeren WoonLab (Youth Housing Lab) of TU/e Urban Labs. The Jongeren WoonLab collaborates with NGOs that work with (homeless) youth, housing associations and municipalities. These partners will be part of the studio at various moments.

Keywords: Scales: Neighbourhood, Ensembles, House; **Themes:** Youth. Inclusive development, Public Space, Housing; **Competencies:** Social-cultural research, Spatial Research, Architectural Design, Urban Design.

ir. Tjeerd Wessel

ir. Daniek Reijnders

7QX2Mo
semester B, quartile 3-4
10 ects
10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7QW2Mo, quartile 3-4

Masterprojects Urbanism

Introduction

Masterprojects Urbanism

UUAo1 **Brabant Waterland**

ir. Marian de Vries

m.j.d.vries.1@tue.nl

UUAo2 **Urban Housing - Living in the City**

MA B.arch. Daryl Mulvihill

d.m.mulvihill@tue.nl

Introduction

Masterprojects Urbanism

This brochure aims to give an overview of the themes and subjects that will be offered in the coming semester, so that you can make an informed choice you can be happy about.

There is one chair offering masterprojects urbanism:
- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

The short introductory description of the studios given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some projects alter the theme or emphasis slightly as a result of changes in staff.

Enrolling in a masterproject:

- 1 You need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your masterproject is Sem A. 2024-2025.
- 2 The tutor of your 1st master project will be your mentor, for the duration of your whole master program.

Be aware: If the number of registrations for a specific master project does not reach a minimum of ten students, it is possible that this specific project will not proceed!

Looking forward to meeting you in our masterprojects!

Brabant Waterland

This studio will focus on the spatial and programmatic developments in some smaller or midsize municipalities and their countryside around the river the Dommel in North Brabant Meierijstad (Veghel), Vught, Sint Michielsgestel and Son en Breugel. These municipalities share various challenges related to the transition in the agricultural sector (nitrogen), climate change (drought and flooding), urbanization, heritage protection and nature development.

The municipalities are aiming to handle these challenges in an integral way, to find synergies and deal with these challenges in a smart way. Post-war planning in the Netherlands has long been famous for its integral planning, based on the twin aims of compact urbanization and the modernization and scaling-up of agriculture. The so-called synergetic interests (in Dutch: meekoppelende belangen) of both sectors have been instrumental in the success of post-war planning. This is not the case anymore. The interests of the different sectors such as agriculture, nature, water, and urban development often are juxtaposed to each other.

We are setting up an Urban Lab to collaborate with various organizations, municipalities, the Waterboard and the Province of North Brabant in order to find an alternative way to find common ground and guide regional development. The starting point of this collaboration is that the regional water structure could be a productive way to connect different challenges. As a starting point we take the concept of six 'water machines' developed by the organization of Mozaiek Dommelvallei. Each water machine could guide the development in an area integrating different challenges, such as (1) the redevelopment of industry, (2) redevelopment of tree nurseries and countering drought, (3) developing leisure and (agro) tourism, (4) the transition of large-scale agriculture, (5) development of suburban areas, and (6) the competitiveness of innovative industries in a rural context.

The aim of this studio is to develop regional strategies that deal with multiple challenges and elaborate these challenges in more detailed plan. During the studio we will collaborate with the partners to define the challenges and collaboratively define the assignments and the area's we will work on. For more information see: www.tue-urbanlabs.nl and www.mozaiekdommelvallei.nl

Keywords:

Scales: provincial, regional, local; **Themes:** transition in agriculture, biobased building, biodiversity, nature development, city-countryside connection, water; **Competencies:** Spatial Research, Concept design, Landscape Design, Regional strategies

ir. Marian de Vries

7QW2Mo
semester B, quartile 3-4
10 ects
10 students



Urban Housing - Living in the City

Image 01
Courtyard Housing
Breda, Alesia Prendi.

Housing is the most basic element and essential unit of the city. The provision of adequate housing is the biggest challenge cities face, simultaneously cities and high-quality urban environments are much more than an accumulation of dwelling units. The quality of living space overlaps with the quality of public spaces, both living and public spaces need to be designed beyond the functional and with a generosity that provides freedom for occupation. In 2023-24 the studio focuses on urban redevelopment in Eindhoven along the Karel de Grootlaan.

This studio focuses on the design of residential environments and urban neighbourhoods. In the studio, students will explore the relationship between:

- density and urban structure
- residential typology and open-space design
- functionality and flexibility of use
- the public, private, and collective domains
- the floorplan and daily life

The studio is organised around three phases:

I. Research and Analysis: The students start with research and development of an ongoing database of housing projects. Through an analysis and comparison of the case studies, students develop the building blocks and design principles for their design project.

II. Design: The development of a detailed design project ranging from neighbourhood level design to detailed floorplans and public spaces.

III. Presentation: A focused period to develop key drawings and visualisations to develop your detailed design and presentation techniques

For more information please contact Daryl Mulvihill: d.m.mulvihill@tue.nl

Keywords:

Scales: Neighbourhood, Ensemble; **Themes:** Urban Transformation. Public Space; **Competencies:** Spatial Research, Urban Design, Typological Design, Architectural Design

MA B.arch. Daryl Mulvihill

7QW2Mo
semester B, quartile 3-4
10 ects
10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7XW1Mo, quartile 3-4

Combined Masterproject

Introduction

Combined Masterproject

RA/UUAo1 Antwerpen

dipl. -ing. Haike Apelt, MA B.Arch. Daryl Mulvihill
h.apelt@tue.nl, d.m.mulvihill@tue.nl

Introduction

Combined Masterproject

There is a special subject package for students who want to register both as an architect and as an urban designer in the Dutch register of architects, the combined masterproject is part of this package.

The combined masterproject Architecture and Urbanism aims at students who want to earn a double degree in Architecture and Urbanism. Only students who have already successfully finished a regular Architecture masterproject (7QX1Mo or 7QX2Mo) and a regular Urbanism masterproject (7QW1Mo or 7QW2Mo) may apply for the combined masterproject.

Being a completely unique program in the Netherlands, students have the chance to combine the two disciplines of Architecture and Urban Design in their MSc-study without following two completely separate MSc-programs. A special subject package has been designed for students who want to register both as an architect and as an urban designer in the Dutch register of architects. This subject package counts 150 erts instead of the regular 120 erts. Students who want to develop themselves in both ways, must take into account a study extension of at least 6 months.

This study package consists of regular courses and projects that are also part of the study packages of future Architects and/or Urban Designers. Two new projects, combining Architecture and Urban Design, have been added to the study package: a combined master project Architecture and Urbanism and a graduation project that combines Architecture and Urban Design. The combined projects 'Architecture and Urbanism' are organized by Rational Architecture (dipl.-ing. Haïke Apelt) and Urbanism and Urban Architecture (prof. dr. ir. Pieter van Wesemael), representing both disciplines within the Unit AUDE.

For details see: <https://educationguide.tue.nl/programs/graduate-school/masters-programs/architecture-building-and-planning/curriculum/registertracks/aude-for-architects-and-urbanists-register-combined/?L=2>



Antwerpen

Image 01
Morphological map of
Antwerp 2016 (source:
atlas of the graduation
studio “Antwerpen – de
getekende stad”, 2016)

The combined Masterproject Architecture and Urbanism is organized by the chair of Rational Architecture and the chair of Urbanism and Urban Architecture, representing both disciplines within the Unit AUDE.

The studio is aimed at students who want to earn a double degree in Architecture and Urbanism. Only students who have already successfully finished a regular Masterproject in Architecture (7QX1Mo or 7QX2Mo) and a regular Masterproject in Urbanism (7QW1Mo or 7QW2Mo) may apply for the combined Masterproject. Please take the necessary steps in the selection procedure when applying for this project!

The studio will be devoted to the typomorphological analysis of the city of Antwerp, from its early beginnings up to its contemporary constitution, focusing on a specific area of the city which the design project will be dealing with. We depart from the assumption that the rich history of this city is readable in its urban form and its buildings. Therefore, historical knowledge must lay at the basis of any attempt to read, understand and make visible ‘time’ within ‘space’.

The project aims at developing an understanding of the critical relationship between the urban condition and the architectural project. We will start with a typo-morphological analysis of the location and its greater context. This research is supported by a literature study to explain the interrelation between societal, political and economic changes and the transformation of the city. The analysis will form the basis for a design project that will cover a wide span of scales and questions of both urbanistic and architectural nature: from the reflection on the greater urban scale to a masterplan for a site, the design of an ensemble of buildings and the surrounding urban space, up to the elaboration of the constructive and spatial structure of the buildings, their architectural expression and material detail. The interrelation of urban and architectural aspects is herein of uttermost importance.

MA B.Arch. Daryl Mulvihill

dipl.-ing. Haike Apelt

7XW1Mo
semester B, quartile 3-4
10 ects
10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7X45Mo, quartile 3

Graduation studios Architecture

Introduction

Graduation studios Architecture

AHT/ADEo1 Resilient Architecture 4 - Naples “Dance on a Vulcano”

dr. Jacob Voorthuis, ir. Tom Veeger, Hans Wilschut

j.c.t.voorthuis@tue.nl, t.t.veeger@tue.nl

ADE/RAo2 The detail of the Big Scale

prof.ir. Juliette Bekkering, ir. Ruurd Roorda, ir. arch. Barbara Kuit

j.d.bekkering@tue.nl, r.p.j.roorda@tue.nl, b.c.i.m.kuit@tue.nl

UUAo1 Intermediate architecture as transformative tool

prof. dr. ir. Pieter van Wesemael, ir. Jochem Groenland, drs. ir. Like Bijlsma

p.j.v.v.wesemael@tue.nl, j.groenland@tue.nl, e.bijlsma@tue.nl

Introduction

Graduation studios Architecture

Every quartile architecture and urbanism students are given the opportunity to start a graduation studio. This brochure means to give you an overview of the themes and subjects that will be offered over the coming semester so that you can make an informed choice you can be happy about. For a detailed explanation of the objectives, requirements and planning of the graduation studios we would like to refer to the Graduation Guide AUDE. A link may be found at the AUDE website: <https://educationguide.tue.nl/opleidingen/graduate-school/masters-programs/architecture-building-and-planning/curriculum/graduation-project/>

There are four chairs offering Graduation Studios. Most of them collaborate with other chairs in the Architecture and Urban Design (AUDE) unit. The names of people listed below are names of those tutors who can chair the various studios available:

- Architectural Design and Engineering (ADE) - prof. ir. Juliette Bekkering
- Architectural History and Theory (AHT) - dr. Jacob Voorthuis and dr. Sergio M. Figueiredo
- Rational Architecture (RA) - Anne Marie Peters
- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

The short introductory description of the studios given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some studios alter the theme or emphasis slightly as a result of changes in staff.

Enrolling in a graduation studio – quartile 3:

- 1 Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your graduation project is Sem B. 2023-2024, quartile 4.
- 2 You have to subscribe with a first and second choice. This is possible until Sunday January 7, 2024.

- 3 The students are required to prepare a written motivation for their first and second choice of their studio and upload this motivation letter in Canvas before Monday January 8, 2024. First subscribe in Osiris, after that upload your motivation letter in Canvas. Use the correct course code (7X45Mo).

The motivation letter should be no longer than 1 A4 (.pdf file) and name this file as following: your last name – code studio 1st choice/code studio 2nd choice (for instance: Hemesath – ADE-UUA01/RA01). Mind you: without motivation letter you won't be assigned to a studio.

- 4 During the first week of the new quartile students are invited by their tutors to visit the graduation studio of their first or (if that particular studio has been oversubscribed) their second choice. Students are required to present their grade list (fully up to date) to the Supervisory Committee.

- 5 For the requirements to start we would like to refer to the Graduation Guide AUDE which may be found at the AUDE website:
<https://educationguide.tue.nl/opleidingen/graduate-school/masters-programs/architecture-building-and-planning/curriculum/graduation-project/>

Be aware: If the number of registrations for a specific graduation studio does not reach a minimum of twelve students and in the case of the continuous studios four students, it is possible that this specific studio will not proceed!

Looking forward to meeting you in our graduation studios!



Resilient Architecture 4

Naples “Dance on a Vulcano”

Image 01
Hans Wilschut

Image 02
Hans Wilschut

Additional Information:
<https://www.stockholm-resilience.org/research/research-news/2019-05-02-dancing-on-the-volcano.html#:~:text=Altogether%2C%20the%20turbulent%20situation%20of,and%20search%20for%20new%20meanings>

Following the success of the previous graduation ateliers ‘Resilient Architecture’ we will continue the exploration of resilient design in a world facing a broad spectrum of daunting problems. Naples will be the focus of this studio.

Researchers of the Stockholm Resilient Centre compare the song “Dance on a Vulcano” to the current state of the world. We are living in the Anthropocene, a human-dominated biosphere challenging the resilience of a liveable planet. Weather extremes, such as floods, droughts, and heat waves, are recognized effects of the human manipulation of the environment. Their damaging impact on cities worldwide is well-known. Also, in recent years people have been fleeing in large numbers from conflict, terror, persecution, and the impact of climate change at home. How do we prepare to cope with these problems? Is Resilient design the way to achieve preparedness? We are going to explore this question in our graduation studio.

In this Graduation studio, we are working with Hans Wilschut, a Dutch photographer with a fascination for the subject of this studio. He will give some short workshops and co-lead the field trip to Naples.

“In my photo work, an overarching subject is man’s environment, the city as architectural and social space, and the tension between them. Recurring sub-themes are globalization, migration, trauma, climate change, tourism, industry, representation, urbanization, and world economy.” www.hanswilschut.com

In Naples, the various problems mentioned above come together: the climate crisis, poverty, and the increasing number of refugees, but there is an additional and continuous threat. Apart from the Vesuvius, there is Campi Flegrei, a seismically unstable area where a super volcanic eruption is imminent, the increase in earthquakes is the alarming harbinger of this. The residents of Campi Flegrei have lived with the tradition of the threat for centuries but also exploit the area in many ways. Can we learn lessons from them?

The work will be carried out in 2 steps: research phase in groups of 2-3 persons; individual design proposal. Excursions to Naples and short workshops will be offered during the graduation period. Supervision will be on Fridays.

Hans Wilschut

ir. Tom Veeger

dr. Jacob Voorthuis

7X45Mo
semester B, quartile 3 (3-4-1-2)
45 ects
12 students



The detail of the Big Scale

Image 01

London-urban-city-life photograph by Simon Hadleigh Sparks
We Can Create The Reality Around Us - London Urban City Life by Simon Hadleigh-Sparks
Retrieved from:
https://www.flickr.com/photos/simon___syon/13100511304/in/photostream/

Image 02

Hong Kong Sheung Wan area Photo by Andy Yeung
Retrieved from:
<https://www.andyyeungphotography.com/UrbanJungle/i-SGR98Xm/A>

This Graduation Studio will be about careful research and design.

Public space is something to be cherished. As architect, to consider the design of a building as stand-alone object – the volumetric design, the interiors – should not be the only goal; also important is the influence the design has on its context. The space the building leaves on the outside; this ‘left-over’ space, consist an equally important part of the design. The influence of a building’s design on the public space surrounding it – the void – will be a point of study in this studio.

Public space is becoming sparser, project development foremost occupies itself with building sufficient square meters, - in investors terms, ‘a meter not build is not only a void but a rentable meter lost’. In this way the necessary shared open spaces we need in our cities, even more valuable in social and human terms, but not in accountable profit, are getting lost. However, at the same time, with rising populations in cities there is a huge need to densify and build these square meters. The question is, how?

Our studio will work with this scale and focus on the context of a big city – however, we will look at it differently. We will try to understand the big scale by looking at the city’s voids, their simplicity, their logic, their form; through analysis in detail. We will explore ways of improving air quality, avoiding overheating, converting CO₂ into oxygen, by including ‘nature’ as an ingredient in these voids.

We will research from the viewpoint of the void, and we let the quality of the public void lead our design.

For this we will study various key areas in the London metropolis. We will study the history of high-rise, and exemplary case studies, in London and New York. In parallel, we will study the skyscraper as evolving typology.

Our context for design will be a large city, in which we will design the detail of the large scale; an urban village area within this city, with high quality inner-city voids where each student will design a mix use high-rise with a complex program, exploring our design from different perspectives, intensive model making and form finding.

ir. arch. Barbara Kuit

ir. Ruurd Roorda

prof.ir. Juliette Bekkering

7X45Mo
semester B, quartile 3 (3-4-1-2)
45 ects
10 students



Intermediate architecture as transformative tool

Image 01
 'Spaarndammerhart' by
 Korthielens Architecten.
 Foto: Dennis de Smet.

Our society is in urgent need of transition. The city, too, will adapt to pressing issues including climate change, ecology and social inequality. How can we go at this transition by preserving or even strengthening the existing urban and architectural identity?

In this studio we will explore different ways to transform the city from within, by uncovering its architectural core. We will do this by analysing special typological and morphological developments in three European cities. From there we will formulate - through research-by-design - specific architectural concepts; critical architectural models (or typologies) that can contribute to the current social and cultural debate. Ideally, these models participate in both the social, functional transformation of the city (offering sustainable, long-term solutions) and the artistic, esthetical transformation (the evolution of architectural identity and architectural language).

We focus on the housing crisis as one of the most pressing challenges. Housing is a basic human need and at the same time the basis of the architectural discipline. We will explore the typologies by using different analytical methods – from typo-morphological analysis to drawing, model-making, literature, and film. In 'workshop-travels' to the different cities we will create typological models and design studies for transformation.

The studio results in the design for architectural ensembles which can intermediate between the urban realm and the private sphere, and between historical and contemporary architectonic characteristics. These 'old-new'* ensembles are tools that bring in semi-public or collective rooms, spheres or zones – a new inner world of the city consisting of intimate courtyards, alleys, patios, enclosed gardens, They form "both the wealth of historic cities and are at the same time the most important structure for the city of the future" (Manuel de Solá-Morales). By exploring new ways of living in experimental and radical typologies we will create active tools that can contribute -from the architectural discipline- to the societal challenges of tomorrow.

*(see work & writings of Miroslav Sik e.a; 'old-new' as explorative design approach to consciously yet freely deal with tradition and conventions.)

drs. ir. Like Bijlsma

ir. Jochem Groenland

Responsible Professor: prof. dr. ir. Pieter van Wesemael

7X45Mo
 semester B, quartile 3 (3-4-1-2)
 45 ects
 10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7X45Mo, quartile 4

Graduation studios Architecture

Introduction

Graduation studios Architecture

AHT/ADE02 Resilient Architecture 4 - Naples "Dance on a Vulcano"
dr. Jacob Voorthuis, ir. Tom Veeger, Hans Wilschut
j.c.t.voorthuis@tue.nl, t.t.veeger@tue.nl

Introduction

Graduation studios Architecture

Every quartile architecture and urbanism students are given the opportunity to start a graduation studio. This brochure means to give you an overview of the themes and subjects that will be offered over the coming semester so that you can make an informed choice you can be happy about. For a detailed explanation of the objectives, requirements and planning of the graduation studios we would like to refer to the Graduation Guide AUDE. A link may be found at the AUDE website: <https://educationguide.tue.nl/opleidingen/graduate-school/masters-programs/architecture-building-and-planning/curriculum/graduation-project/>

There are two chairs offering Graduation Studios. Most of them collaborate with other chairs in the Architecture and Urban Design (AUDE) unit. The names of people listed below are names of those tutors who can chair the various studios available:

- Architectural Design and Engineering (ADE) - prof. ir. Juliette Bekkering
- Architectural History and Theory (AHT) - dr. Jacob Voorthuis and dr. Sergio M. Figueiredo

The short introductory description of the studios given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some studios alter the theme or emphasis slightly as a result of changes in staff.

Enrolling in a graduation studio – quartile 4:

- 1 Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your graduation project is Sem A. 2024-2025, quartile 1.
- 2 You have to subscribe with a first and second choice. This is possible until Sunday March 24, 2024.

- 3 The students are required to prepare a written motivation for their first and second choice of their studio and upload this motivation letter in Canvas before Monday March 25, 2024. First subscribe in Osiris, after that upload your motivation letter in Canvas. Use the correct course code (7X45Mo).

The motivation letter should be no longer than 1 A4 (.pdf file) and name this file as following: your last name – code studio 1st choice/code studio 2nd choice (for instance: Hemesath – ADE-UUAo1/RAo1). Mind you: without motivation letter you won't be assigned to a studio.

- 4 During the first week of the new quartile students are invited by their tutors to visit the graduation studio of their first or (if that particular studio has been oversubscribed) their second choice. Students are required to present their grade list (fully up to date) to the Supervisory Committee.

- 5 For the requirements to start we would like to refer to the Graduation Guide AUDE which may be found at the AUDE website:
<https://educationguide.tue.nl/opleidingen/graduate-school/masters-programs/architecture-building-and-planning/curriculum/graduation-project/>

Be aware: If the number of registrations for a specific graduation studio does not reach a minimum of twelve students and in the case of the continuous studios four students, it is possible that this specific studio will not proceed!

Looking forward to meeting you in our graduation studios!



Resilient Architecture 4

Naples “Dance on a Vulcano”

Image 01
Hans Wilschut

Image 02
Hans Wilschut

Additional Information:
<https://www.stockholm-resilience.org/research/research-news/2019-05-02-dancing-on-the-volcano.html#:~:text=Altogether%2C%20the%20turbulent%20situation%20of,and%20search%20for%20new%20meanings>

Following the success of the previous graduation ateliers ‘Resilient Architecture’ we will continue the exploration of resilient design in a world facing a broad spectrum of daunting problems. Naples will be the focus of this studio.

Researchers of the Stockholm Resilient Centre compare the song “Dance on a Vulcano” to the current state of the world. We are living in the Anthropocene, a human-dominated biosphere challenging the resilience of a liveable planet. Weather extremes, such as floods, droughts, and heat waves, are recognized effects of the human manipulation of the environment. Their damaging impact on cities worldwide is well-known. Also, in recent years people have been fleeing in large numbers from conflict, terror, persecution, and the impact of climate change at home. How do we prepare to cope with these problems? Is Resilient design the way to achieve preparedness? We are going to explore this question in our graduation studio.

In this Graduation studio, we are working with Hans Wilschut, a Dutch photographer with a fascination for the subject of this studio. He will give some short workshops and co-lead the field trip to Naples.

“In my photo work, an overarching subject is man’s environment, the city as architectural and social space, and the tension between them. Recurring sub-themes are globalization, migration, trauma, climate change, tourism, industry, representation, urbanization, and world economy.” www.hanswilschut.com

In Naples, the various problems mentioned above come together: the climate crisis, poverty, and the increasing number of refugees, but there is an additional and continuous threat. Apart from the Vesuvius, there is Campi Flegrei, a seismically unstable area where a super volcanic eruption is imminent, the increase in earthquakes is the alarming harbinger of this. The residents of Campi Flegrei have lived with the tradition of the threat for centuries but also exploit the area in many ways. Can we learn lessons from them?

The work will be carried out in 2 steps: research phase in groups of 2-3 persons; individual design proposal. Excursions to Naples and short workshops will be offered during the graduation period. Supervision will be on Fridays.

Hans Wilschut

ir. Tom Veeger

dr. Jacob Voorthuis

7X45Mo
semester B, quartile 4 (4-1-2-3)
45 ects
12 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7X45Mo, quartile 3

Graduation studios Urbanism

Introduction

Graduation studios Urbanism

UUA01 Density and other Matters

prof.dr.ir. Pieter van Wesemael, dr.ir. Dena Kasraian, ir. Aroosha Zahid
p.j.v.v.wesemael@tue.nl, d.kasraian@tue.nl, a.zahid@tue.nl

UUA02 Intermediate architecture as transformative tool

prof. dr. ir. Pieter van Wesemael, ir. Jochem Groenland, drs. ir. Like Bijlsma
p.j.v.v.wesemael@tue.nl, j.groenland@tue.nl, e.bijlsma@tue.nl

Introduction

Graduation studios Urbanism

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There is one chair offering Graduation Studios Urbanism:
- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

The short introductory description of the studios given here will be supplemented with more elaborate descriptions and exact planning schedules closer to their actual starting date. It is possible that some studios alter the theme or emphasis slightly as a result of changes in staff.

Enrolling in a graduation studio – quartile 3:

- 1 Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your graduation project is Sem B. 2023-2024, quartile 4.
- 2 You have to subscribe with a first and second choice. This is possible until Sunday January 7, 2024.
- 3 During the first week of the new quartile students are invited by their tutors to visit the graduation studio of their first or (if that particular studio has been oversubscribed) their second choice. Students are required to present their grade list (fully up to date) to the Supervisory Committee.

4 For the requirements to start we would like to refer to the Graduation Guide AUDE which may be found at the AUDE website:

<https://educationguide.tue.nl/opleidingen/graduate-school/masters-programs/architecture-building-and-planning/curriculum/graduation-project/>

Be aware: if the number of registrations for a specific graduation studio does not reach a minimum of twelve students twelve students and in the case of the continuous studios four students, it is possible that this specific studio will not proceed!

Looking forward to meeting you in our graduation studios!



Density and other Matters

Image 01
Eindhoven skyline
©BlowUp Media

We need to build around one million houses in the Netherlands in the next decade to address the increasing housing shortage. Most of these houses will be built in the existing urban areas within big cities. Many projects are being prepared with densities higher than what we are used to in Dutch cities. This raises all kinds of issues and questions. What does densification mean for the quality of life? What are its consequences for mobility? How can we guarantee enough green and protect biodiversity? How can we achieve human scale and environmental quality?

In this studio we will explore the potentials and limits of high density. The focus area will be Eindhoven city region. Students are encouraged to address several scales in their research and design from the metropolitan region of Eindhoven and the city to a number of select neighborhoods. Besides the common focus on density, students will choose an individual theme to work on. By studying these themes students will address the impacts of high density from several perspectives. We encourage students to develop their individual theme before starting the studio.

This studio applies a knowledge-based approach. Following a systematic methodology, the students will formulate the problems related to their theme(s) and identify the gaps and research questions. They will develop a conceptual model to structure how their variables of interest and interventions and related, conduct a (systematic) review of state-of-the-art literature, policy documents and case studies to gather evidence on the mechanisms of action and successful spatial/policy interventions related to their chosen themes. Building on their knowledge-based findings and spatial (GIS-based) analysis they will identify potential intervention areas in Eindhoven region. Finally, they will suggest policies and interventions to solve the identified problems. The expected outcomes are i) an academic paper (max. 8000 words) and ii) a design booklet including the spatial analyses, a region/city-wide strategy, and more detailed (design) interventions at the neighborhood level.

Keywords:

Scales: Region, city, neighbourhood; **Themes:** Densification, mobility, energy, health, green and blue spaces, public spaces, quality of life, sustainable development, urban transformation; **Competencies:** Literature review, spatial analysis (GIS-based), strategy & scenario design, regional planning, urban design

ir. Aroosha Zahid

dr.ir. Dena Kasraian

Responsible Professor: prof.dr.ir. Pieter van Wesemael

7W45Mo
semester B, quartile 3 (3-4-1-2)
45 ects
10 students



Intermediate architecture as transformative tool

Image 01
 'Spaarndammerhart' by
 Korthielens Architecten.
 Foto: Dennis de Smet.

Our society is in urgent need of transition. The city, too, will adapt to pressing issues including climate change, ecology and social inequality. How can we go at this transition by preserving or even strengthening the existing urban and architectural identity?

In this studio we will explore different ways to transform the city from within, by uncovering its architectural core. We will do this by analysing special typological and morphological developments in three European cities. From there we will formulate - through research-by-design - specific architectural concepts; critical architectural models (or typologies) that can contribute to the current social and cultural debate. Ideally, these models participate in both the social, functional transformation of the city (offering sustainable, long-term solutions) and the artistic, esthetical transformation (the evolution of architectural identity and architectural language).

We focus on the housing crisis as one of the most pressing challenges. Housing is a basic human need and at the same time the basis of the architectural discipline. We will explore the typologies by using different analytical methods – from typo-morphological analysis to drawing, model-making, literature, and film. In 'workshop-travels' to the different cities we will create typological models and design studies for transformation.

The studio results in the design for architectural ensembles which can intermediate between the urban realm and the private sphere, and between historical and contemporary architectonic characteristics. These 'old-new'* ensembles are tools that bring in semi-public or collective rooms, spheres or zones – a new inner world of the city consisting of intimate courtyards, alleys, patios, enclosed gardens, They form "both the wealth of historic cities and are at the same time the most important structure for the city of the future". (Manuel de Solá-Morales). By exploring new ways of living in experimental and radical typologies we will create active tools that can contribute -from the architectural discipline- to the societal challenges of tomorrow.

The studio is open to urbanism students with a strong preference for the intermediate scale between urbanism and architecture.

*(see work & writings of Miroslav Sik e.a; 'old-new' as explorative design approach to consciously yet freely deal with tradition and conventions.)

drs. ir. Like Bijlsma

ir. Jochem Groenland

Responsible Professor: prof. dr. ir. Pieter van Wesemael

7X45Mo
 semester B, quartile 3 (3-4-1-2)
 45 ects
 10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7X45Mo, quartile 4

Graduation studios Urbanism

Introduction

Graduation studios Urbanism

UUA03 Density and other Matters

prof.dr.ir. Pieter van Wesemael, dr.ir. Dena Kasraian, ir. Aroosha Zahid
p.j.v.wesemael@tue.nl, d.kasraian@tue.nl, a.zahid@tue.nl

Introduction

Graduation studios Urbanism

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There is one chair offering Graduation Studios Urbanism:
- Urbanism and Urban Architecture (UUA) - prof. dr. ir. Pieter van Wesemael

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Density and other Matters

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Eindhoven skyline
©BlowUp Media

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Keywords:

Scales: Region, city, neighbourhood; **Themes:** Densification, mobility, energy, health, green and blue spaces, public spaces, quality of life, sustainable development, urban transformation; **Competencies:** Literature review, spatial analysis (GIS-based), strategy & scenario design, regional planning, urban design

ir. Aroosha Zahid

dr.ir. Dena Kasraian

Responsible Professor: prof.dr.ir. Pieter van Wesemael

7W45Mo
semester B, quartile 4 (4-1-2-3)
45 ects
10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7X6oMo, quartile 3

Combined graduation studios

Introduction

Combined graduation studios

RA/UUAo1 Antwerpen

dipl. -ing. Haïke Apelt, MA B.Arch. Daryl Mulvihill
h.apelt@tue.nl, d.m.mulvihill@tue.nl



Antwerpen

Image 01
Morphological map of
Antwerp 2016 (source:
atlas of the graduation
studio “Antwerpen – de
getekende stad”, 2016)

The combined Graduation studio Architecture and Urbanism is aimed at students who want to earn a double degree in Architecture and Urbanism. Only students who have already successfully finished a regular Masterproject in Architecture (7QX1Mo or 7QX2Mo) and a regular Masterproject in Urbanism (7QW1Mo or 7QW2Mo) and a combined Masterproject in Architecture and Urbanism (7XW1Mo) may apply for the combined Graduation studio.

The studio will be devoted to the typomorphological analysis of the city of Antwerp, focusing on specific urban situations which play an important role within the actual debate. Within the strategic plan of the department of urban planning an expected population growth of about 30 000 families until 2030 is discussed, which rises (among others) questions of urban and architectural nature. As there are limits to the densification of the inner city, the so-called “Sprong over Ring en Rivier” is to play a central role in accommodating an expected population growth, but it will also in many ways redefine the city as we know it.

The studio aims at developing an understanding of the critical relationship between the urban condition and the architectural project. In the first semester, the students will study the morphological genesis and transformation of the city and related building types. The typo-morphological research will be combined with a literature study in order to explain the interrelationship between societal, political and economic changes and the (trans)formation of the city. This collective effort will result in a so called ‘atlas’, which consists of essays and analytical drawings and which will form the basis for the individual research and design projects in the second semester.

MA B.Arch. Daryl Mulvihill

dipl.-ing. Haike Apelt

7X60Mo
semester B, quartile 3 (3-4-1-2)
60 ects
10 students

7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X6oMo, quartile 3
Combined graduation studios

7X6oMo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7X6oMo, quartile 4

Combined graduation studios

Introduction

Combined graduation studios

RA/UUAo2 Antwerpen

dipl. -ing. Haïke Apelt, MA B.Arch. Daryl Mulvihill
h.apelt@tue.nl, d.m.mulvihill@tue.nl



Antwerpen

Image 01
Morphological map of
Antwerp 2016 (source:
atlas of the graduation
studio “Antwerpen – de
getekende stad”, 2016)

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MA B.Arch. Daryl Mulvihill

dipl.-ing. Haike Apelt

7X60Mo
semester B, quartile 4 (4-1-2-3)
60 ects
10 students

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7X60Mo, quartile 3
Combined graduation studios

7X60Mo, quartile 4
Combined graduation studios

7QQ5Mo
International Academic Workshops

7QQ5Mo
International Academic Workshops

RAo1 **The Department Store: Past - Present - Future**
dipl.-ing. Haike Apelt, ir. Anne Marie Peters
h.apelt@tue.nl, a.peters@tue.nl



The Department Store: Past - Present - Future

Image 01

Arthur Köster, 1895-1965, Kaufhaus Schocken, Stuttgart 1928, Silbergelatinepapier. Kunstbibliothek, Sammlung Architektur. © VG Bild-Kunst, Bonn 2010
Retrieved from: <https://www.photoscala.de/2010/08/21/ein-neuer-blick/>

The chair of Rational Architecture is participating in the 12th International Spring Academy which is organized by the TU Dortmund. Participating will be teachers and students from the universities from Dortmund, Naples, Gothenburg, Ghent and Eindhoven. This year's subject is "The Department Store: past, present, future" with an inner-city location in Dortmund as subject of the design task.

The cultural as well as architectural heritage of the department store as a building type will be studied, as well as its important role within the texture and quality of urban life. Today, "domino-like chain reactions threaten the economy and as a consequence also the possibilities for the maintenance of all further urban qualifications. Thus, we are challenged to think about the building type fundamentally and not only as a local or regional phenomenon, to question it critically and (...) to work out sustainable alternatives or, even better, a clever continuation as architectures relevant to the inner city." (excerpt from the task description)

The Spring Academy will involve participation in an international design workshop in Dortmund for 10 days, together with some preparatory work during the pre- and postproduction. Parallel to the workshop, lectures and excursions will be organized. During the workshop you will work together in small mixed groups, thereby getting acquainted with a different cultural and academic background of your peers. Supervised by teaching staff from the different universities, the workshop involves the development of skills regarding communication and collaboration, the exploration of different design methods, and most importantly, significant aspects of international experience which will broaden your horizon and may provide useful contacts for your future carrier.

Pre-production will involve the preparation of necessary photographic and plan material for a case study (for example Eindhoven). After the workshop, during post-production, a small booklet will be compiled to collect all material presented at the final day of the workshop. This workshop is recommended for architecture students with an interest in matters of urban design, or to urbanism students with an interest in matters of architectural design, and is of course an excellent choice for students following the combined register track.

Organized by: Prof. Olaf Schmidt/ Prof. Michael Schwarz, TU Dortmund

Also participating: University of Applied Science Potsdam, Università degli Studi di Napoli Federico II, Strathclyde University Glasgow and Ghent University

ir. Anne Marie Peters

dipl.-ing. Haike Apelt

7Q5Mo

semester B, quartile 3 (workshop in Dortmund March 11 - 20, 2024)

5 ects

max. participants is 15

**DPM
BLT
ENV**

department of the
built environment

architectural urban design
and engineering

AUDE



cover illustration, artwork by Koen Ehren