

seminars, master- and graduation
projects architecture + urbanism
semester A, 2024-2025

eindhoven school of architecture,
urban design and engineering

24
25



cover illustration, artwork by Emiel Vreugdenhil

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Seminars Architecture and Urbanism

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Seminars Architecture and Urbanism

Introduction
Seminars Architecture and Urbanism

RAo1 The Enormous
ir. Narindath Maraj
n.maraj@tue.nl

RAo2 Social Housing, Social Spaces
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l.r.arpots@tue.nl, e.bijlsma@tue.nl, j.groenland@tue.nl

TAo1 Delft, and the other one
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UUAo1 Mapping the political space
ir. Aroosha Zahid
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UUAo2 New Living Concepts: Housing for a Post-Growth Society
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.

There are three chairs offering seminars for Sem A 2024-2025, quartile 1. The contact persons for each chair are as follows:

- 1. Transformational Architecture (TA)**
ir. Ruurd Roorda, r.p.j.roorda@tue.nl
- 2. Rational Architecture (RA)**
dipl. ing. Haike Apelt, h.apelt@tue.nl
- 3. Urbanism and Urban Architecture (UUA)**
prof. dr. ir. Pieter van Wesemael, p.j.v.v.wesemael@tue.nl

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 enrol in Osiris before the closing of the registration term (**August 25, 2024**). If you register too late the first possibility to start with your seminar is Sem A 2024-2025, quartile 2.
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!

The Enormous

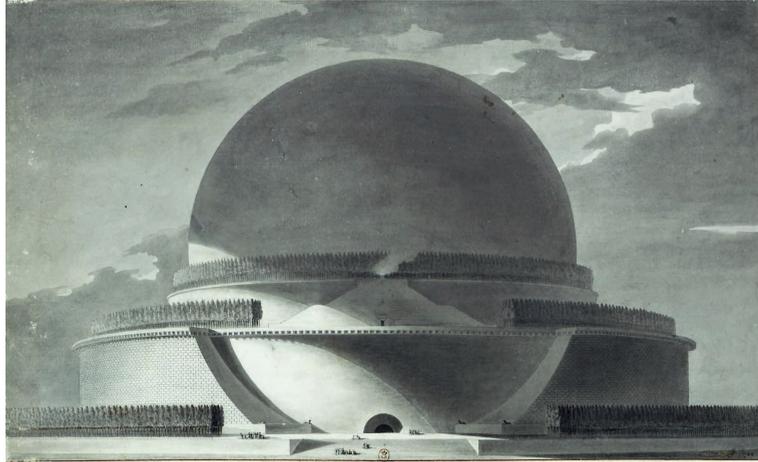
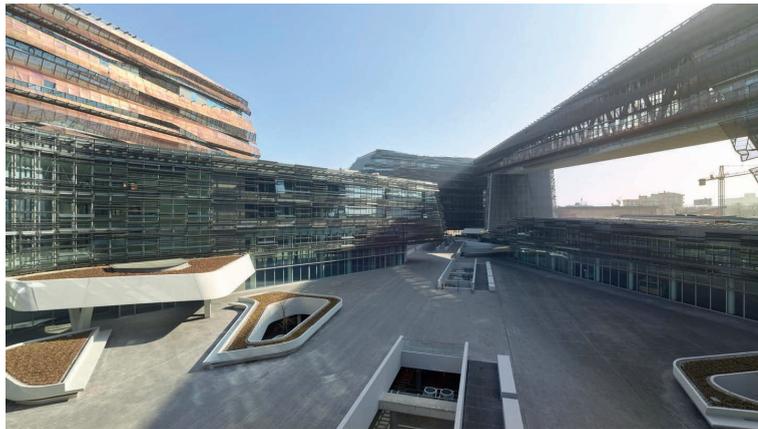


Image 01
Drawing by Étienne-Louis Boullée of the Cenotaph for Newton. Retrieved from: <https://www.archdaily.com/544946/ad-classics-cenotaph-for-newton-etienne-louis-boullée>

Image 02
Exploration and Production Business Center, Milan, Italy, by Morphosis Architects. Retrieved from: <https://www.morphosis.com/architecture/220/>



Beyond the edges of paper and context; forms of enormous architecture insert a desire to expand to the infinite. The enormous holds a position over a context, a singular perspective that considerably transforms an understanding of place, landmark, and occupation. Equally, the enormous is more than the magnitude of size, or visible solidity of an object, it is the implication of a design and the statement imprinted on a spatial context. In most cases, enormous forms of architecture participate in an arrangement of power, like The Palace of Parliament in Bucharest, Romania. However, power is not the only motivation, but rather ideology and spatial impact as a form of intervention. The singularity of standing in light casts a shadow, thus, architecture as the enormous, considers the role of impactful design with its context.

In this seminar, we will study the enormous architecture as a type and the understanding of its role of impact on a context. A combination of research methods will be applied. Among these methods, literature research and essay writing will create the framework for weekly discussion. Architectural analysis in the form of drawings and abstract model-making will additionally create the framework for the obvious, or, hidden ideologies. Lastly, the role of impact on context will be formulated as a single piece of abstraction that conveys the enormous.

ir. Narindath Maraj

7QX5Mo
semester A, quartile 1
5 ects
10 students

Social Housing, Social Spaces
Understanding the city through iterative modelmaking

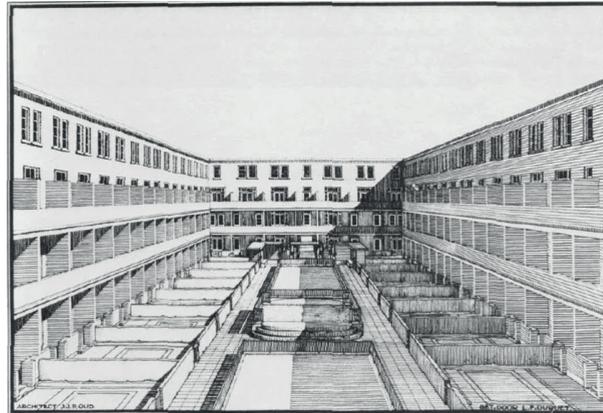


Image 01
 Woningbouw Tussendijken, drawing by arch. J.J.P. Oud

Image 02
 Justus van Effenblok, drawing by arch. Michiel Brinkman



In 1924, architect J.J.P. Oud finished his design of the 1005 Woningenplan in Tussendijken, Rotterdam. The eight housing blocks, each containing a collective courtyard, formed the culmination of two decades of experimental housing design and alluded to a definitive answer to mass housing with regards to typology, hygiene, esthetics and social interaction. Due to the sheer scale of the plan, its monumental nature, clarity of design and far-reaching political influence, the complexes in Tussendijken were met with international acclaim and continue to serve as standard reference in architectural education around the globe. Although most of the blocks were destroyed in a 1943 bombing, one block survives; its century old courtyard and sandpit remain the social focal point for the low income residents.

In this seminar we will analyze the social spaces (such as courtyards, street corners, squares or in between spaces) that exist within and around mass housing complexes in Rotterdam, and play a significant role in the urban quality of life. By means of sequences of intuitively crafted scale models, we aim to narrate these social spaces' historical genesis, political context, architectural language and materiality, social ecosystem, and other 'soft' aspects that are usually omitted in the practice of architectural drawing. Through this process we will collaboratively develop a method for iterative, analytical modelmaking from a flaneur's perspective. Students will be pushed to make fast paced analytical steps and reflections, training their observation, production and decision making skills. The seminar will partly take place in Rotterdam and students will be expected to work on site a number of times accordingly.

ir. Lennart Arpots
drs ir. Like Bijlsma
ir. Jochem Groenland

7QX5Mo
 semester A, quartile 1
 5 ects
 10 students



Image 01
Stairs at TUD and TU/e.
Retrieved from: www.azuremagazine.com and
www.archiprix.nl

Delft, and the other one

In this seminar, we will investigate all the persistent and widespread assumed dichotomy between the two Dutch universities that educate architects: TU Delft and our TU/e.

The department at TU/e which is now the Built Environment was established in 1967, while Delft has been training architects since 1905. The Delftse School is a style, but the Eindhoven School is considered more like an approach or a mindset. Eindhoven has always been smaller in student influx and characterized as more 'modest' and 'unpretentious' and taking '2nd place', resulting in what has been maliciously categorized as Calimero's syndrome. There is a lot of hearsay and prejudices, but what can we actually find to substantiate or refute this?

The seminar will scrutinize both schools. Investigating differences but simultaneously seeking for similarities between architecture education in Delft and Eindhoven on many levels: statistical, historical, connotational, but particularly educational and didactical.

The methodology of this exploratory research will be equally versatile:

- Quantitative (amounts/numbers in output, rankings, publications)
- Qualitative (e.g. comparison between acquisition strategies, curriculum/programs, vision/mission statements)
- Narrative (interviews with students and staff members that have links to both schools)

The resulting product of this seminar will be a 30-40 minutes documentary (or podcast, but we will discuss options in our first meeting). You will be actively seeking for exchange and cooperation with TU Delft and perhaps even a collective final product.

Weekly tutoring: probably Thursday afternoon, but to be decided in close consultation with everyone involved.

Lit.: v d Heuvel, Steigenga & v Triest (2002), Lessons: tupker\risselada - a double portrait of Dutch architectural education 1953\2003 (SUN)

ir. Maarten Willems

7QX5Mo
semester A, quartile 1
5 ects
10 students

Mapping the political space

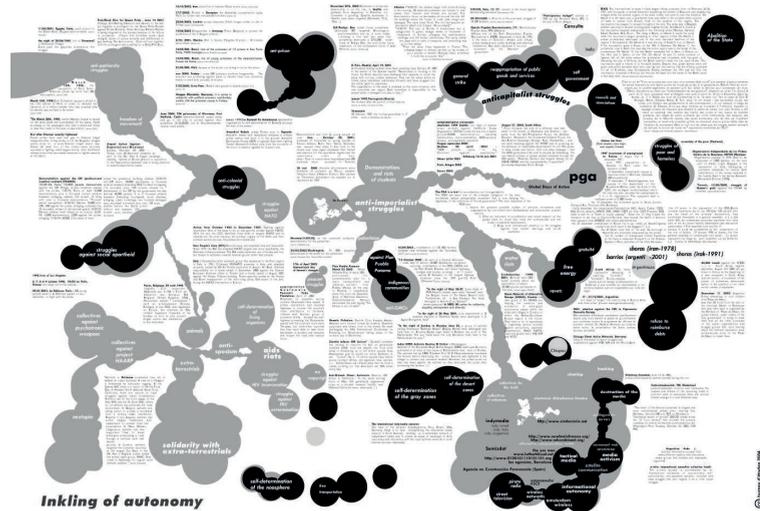


Image 01
Inkling of Autonomy.
Retrieved from: <https://bureaudetudes.org/author/bureau-etudes/>

Image 02
Manchester Spaces of Resistance. Retrieved from: <https://carrier.org/exhibition/larissa-fassler/>



Michel Foucault, in his seminal work “Space, Knowledge, and Power,” argued that architecture can powerfully shape social dynamics, with buildings and cities designed to reflect our desire for freedom and expression fostering positive social change. Borrowing from this concept, political space can be defined as the arena where citizens engage with the visible and invisible structures, actors, and processes shaping our cities. This encompasses established systems governing these spaces as well as the challenges and critiques directed towards them. Entering the debate from this perspective, this seminar on Political Spaces focuses on critical cartography to create and analyze maps revealing hidden power structures and social inequalities in urban landscapes. Inspired by projects like “Atlas of Agendas: Mapping the Power, Mapping the Commons,” and Larissa Fassler’s work, students will learn to use mapping to expose power dynamics and critically engage with space, particularly learning about mapping the spatial networks of inequalities – e.g. a city wide mapping of privately owned public spaces and who governs them or who uses them? The seminar highlights how political agendas mold our physical environment. It also engages with the tools and tactics for reclaiming space, such as guerrilla gardens, acts of squatting, student encampments, and the creation of communal spaces and collective governance, empowering resistance and fostering alternative ways of living. The seminar will culminate in a public exhibition.

ir. Aroosha Zahid

7QX5Mo
semester A, quartile 1
5 ects
10 students



Image 01
De Nieuwe Meent
Wooncoöperatie in Amsterdam. Retrieved from: <https://niewemeent.nl/en/gebouw/>

New Living Concepts: Housing for a Post-Growth Society

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 that discuss and propose housing alternatives for a post-growth society. Post-growth thinking is a radical alternative to mainstream sustainability discourses based on principles of sufficiency, care, and well-being economy. Hence the seminar will be engaging with theoretical proposition of post-growth thinkers, as well as analyzing existing housing concepts. 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. At the end of the seminar a booklet of case-studies and essays will be created as a group.

Keywords: **Scales:** Neighbourhood, block, building. **Themes:** Housing, social inclusion, sustainability. **Competencies:** People centred research, critical literature analysis, fieldwork, design exploration

dr. Oana Druta

7QX5Mo
semester A, quartile 1
5 ects
10 students

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

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Seminars Architecture and Urbanism

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Combined Masterproject

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7QQ5Mo
International Academic Workshops

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

Introduction
Seminars Architecture and Urbanism

AHTo1 Eindhoven Review of Architecture
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s.m.figueiredo@tue.nl

RAo3 Firenze Analogo / The Architectural Dictionary
dipl. ing. Haike Apelt, ir. Wouter Hilhorst
h.apelt@tue.nl, w.hilhorst@tue.nl

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 two chairs offering seminars for Sem A 2024-2025, quartile 2. The contact persons for each chair are as follows:

- 1. Architectural History and Theory (AHT)**
Associate professor dr. Jacob Voorthuis, j.c.t.voorthuis@tue.nl
- 2. Rational Architecture (RA)**
dipl. ing. Haïke Apelt, h.apelt@tue.nl

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 enrol in Osiris before the closing of the registration term (**October 13, 2024**). If you register too late the first possibility to start with your seminar is Sem B 2024-2025, quartile 3.
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!



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

Eindhoven Review of Architecture

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 Figueiredo

7QX5Mo
semester A, quartile 2
5 ects
10 students

Firenze Analogo / The Architectural Dictionary

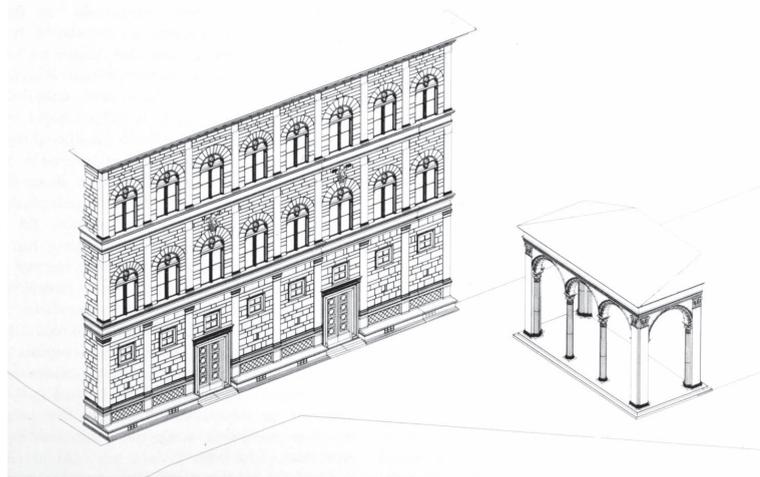


Image 01
 Palazzo Rucellai.
 Retrieved from: <https://arapoportcoag3116.weebly.com/palazzo-rucellai.html>

The seminar addresses general themes (related to place, type, construction, geometry, form) that form constants in architecture. These themes have slowly sedimented over time through the occurrence of built (or drawn) examples, examples which belong to a specific time and place, but at the same time always pick up the same threads which form constants in architecture, or stronger still: they constitute architecture.

The seminar is part of a series that attempts to build a ‘dictionary’ of architectural themes, types and forms, this time concentrating on the city of Florence. The dictionary is to contain written and drawn descriptions, based on the analysis of different examples, describing both constants and variants with regard to a specific theme, the formal structure of an element, and so on.

Florence, with its layered history, visible in the typical elements of its urban architecture (the palazzo, the cortile, the loggia, just to name a few) has a character that is recognizable immediately. While in Florence these types have their own logic and form, they are related to a greater European tradition, however by having crystallized in a particularly clear way, at times they even developed the character of a model, meaning they have been seen exemplary and worth repeating and still today, can inform contemporary building practice.

dipl. ing. Haike Apelt

ir. Wouter Hilhorst

7QX5Mo
 semester A, quartile 2
 5 ects
 10 students

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Seminars Architecture and Urbanism

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7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7QX1Mo, quartile 1-2
Masterprojects Architecture

Introduction
Masterprojects Architecture

AHTo1 High density | High diversity
dr. Sergio Figueiredo
s.m.figueiredo@tue.nl

ADEo1 Brutalism & Transparency: Brutalism on the Amstel
ir. arch. Barbara Kuit, ir. arch. Mark Hemel
b.c.i.m.kuit@tue.nl, m.p.hemel@tue.nl

ADEo2 Computational Clay Systems
dr.-ing. Cristina Nan
i.c.nan@tue.nl

RAo1 Tectonic Exercises
ir. Renato Kindt, ir. Ralph Brodruck
r.r.w.i.kindt@tue.nl, r.p.g.brodruck@tue.nl

RAo2 Hilversum, Garden City of Tomorrow
ir. Rik de Bondt
r.l.d.bondt@tue.nl

TAo1 ETT – Easy to Transform
ir. Ruurd Roorda, Femke Stout MSc
r.p.j.roorda@tue.nl, f.m.stout@tue.nl

UUAo1 Urban Housing - Living in the City
MA B.arch. Daryl Mulvihill
d.m.mulvihill@tue.nl

Introduction

Masterprojects Architecture

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 five chairs offering architecture masterprojects for Sem A 2024-2025. The contact persons for each chair are as follows:

1. **Architectural History and Theory (AHT)**
Associate professor dr. Jacob Voorthuis, j.c.t.voorthuis@tue.nl
2. **Architectural Design and Engineering (ADE)**
prof. ir. Juliette Bekkering, j.d.bekkering@tue.nl
3. **Transformational Architecture (TA)**
ir. Ruurd Roorda, r.p.j.roorda@tue.nl
4. **Rational Architecture (RA)**
dipl. ing. Haike Apelt, h.apelt@tue.nl
5. **Urbanism and Urban Architecture (UUA)**
prof. dr. ir. Pieter van Wesemael, p.j.v.v.wesemael@tue.nl

The short introductory descriptions 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 masterprojects slightly alter their theme or emphasis as a result of changes in staff.

Enrolling in a masterproject:

1. You need to enrol in Osiris before the closing of the registration term (**August 25, 2024**). If you register too late the first possibility to start with your masterproject is Sem B 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 'waiting list', don't panic! This only means that you are registered as a student to one of the master projects of your choice. **After August 26, 2024 you will be assigned to your final master project.** It is important to note that the group classification is not final until you have received an e-mail from your master project tutor.
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 masterproject does not reach a minimum of ten students, it is possible that this specific masterproject will not proceed. Looking forward to meeting you in our masterprojects!



Image 01
The drawing office of a
Dutch developer, 1964
(Cas Oorthuys, Neder-
lands Fotomuseum)

High density | High diversity

Towards a Critical Reading of Everyday Architecture

How could we come to a better understanding of the complexity of contemporary society and cities by studying and designing architecture? Architecture is never neutral but the outcome of a complex mix of historically developed conventions, political policies, financial transactions, communities, programmatic requirements, and much more. Architects not only deal with these complexities and translate them into visually appealing designs for buildings, they should also be critical towards them.

This design studio is focussed on developing a critical understanding of—and positioning on—cities and architecture through the lens of several underrepresented, often overlooked, ‘non-standard’, or (historically) oppressed societal groups in addition to the well-established and canonised history of architecture. Examples of such groups and lenses are female, queer, children/teenagers, people with disabilities and non-human beings (plants/animals). The main question is: how would looking at architectural design through these lenses enrich architecture culture and contemporary architecture production?

Considering housing crises, climate change and finite resources, the design of smart urban densification is crucial for vital cities. Hence, the assignment is to collectively design a small part of Amsterdam as an exemplary cross section of the city, a *cadavre exquis*, reflecting the findings of the collective multi-perspectival and intersectional research. The plan will consist mainly of housing program and additional public/commercial program. Each student will subsequently individually work out a part of the collectively designed ‘masterplan.’

A study of selected literature, making of a catalogue and small case-study analysis will inform the design process of the masterplan in the first quartile. While, in the second quartile the focus will be on the architectural design of the individual parts. One or two excursions to Amsterdam/Rotterdam will serve as further inspiration and information on the research and design.

dr. Sergio Figueiredo

7QX5Mo
semester A, quartile 1
5 ects
10 students

Brutalism & Transparency

Brutalism on the Amstel



Image 01
Geisel Library San Diego (1970, William Pereira). Retrieved from: https://upload.wikimedia.org/wikipedia/commons/thumb/4/44/Geisel_Library%2C_UCSD.jpg/1200px-Geisel_Library%2C_UCSD.jpg

Image 02
Housing Complex in Karaburma, Rista Sekerinski (1963, Belgrade). Retrieved from: https://images.adsttc.com/media/images/63a4/941a/8c33/f419/6a96/48eb/newsletter/brutalist-photography_2.jpg?1671730210

Image 03
The location of the site to be adapted: The Amstel river bank area. Retrieved from: <https://weesperzijde190.nl/wp-content/uploads/2022/12/Timeline-HvA-hands-in-key-1-978x667.jpg>

Image 04
Building to be transformed: Former University of Applied Sciences Retrieved from: <https://weesperzijde190.nl/en/welcome-at-weesperzijde-190/>

During the nineteen fifties and sixties, the Brutalism movement in architecture emerged as an extension of the modernist movement and was characterized by simple, massive structures and the prominent use of exposed concrete. Our contemporary society seems to have a problematic relation to the Brutalism objects though. The often fine and sensitively detailed expressive monolithic sculptures do neither match our contemporary political ideas of transparency and openness, nor do the materials used, identify-, express- or relate to our current concerns such as sustainability and diversity.

We therefore think that the challenge to transform an obscure brutalist building offers an excellent starting point to investigate the essential values that belong to good contemporary architecture. In this project we can so question how to relate to history, but also how to complement or infuse the buildings of our past with a new spirit and make them resilient and relevant again. At the same time we can sharpen our tools on a more practical level and experiment what strategies we could apply to practically improve a dilapidated eyesore that is located in a strategic position of the city of Amsterdam.

Our studio will research theoretical ideas as literal and phenomenal transparency. Our research will start from the text; “Transparency” by Colin Rowe and Robert Slutzky 1963, and in our own terms we will adept and rework these ideas in both text and designs to critically reflect on design as a practical and political undertaking, which in our case will have to lead to a radical reformation of the 88.000 sqm former university building (also know as ‘Leeuwenburg’), a building that has recently become vacant and is up for more than only a superficial makeover, and as required program will include an opera house and hotel as its main facilities. The project will result in a detailed design where architectural intentions of transparency become translated into actual material solutions. The site of the building is located in the Omval, an island between The Amstel Station and the river, a site of pivotal importance to the development of the Over-Amstel area.

ir. arch. Barbara Kuit

ir. arch. Mark Hemel

7QX1Mo
semester A, quartile 1-2
10 ects
20 students



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

Computational Clay Systems

From Computational Design to Digital Fabrication

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

7QX1Mo
semester A, quartile 1-2
10 ects
20 students



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

Tectonic Exercises

*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.

ir. Ralph Brodruck

ir. Renato Kindt

7QX1Mo

semester A, quartile 1-2

10 ects

10 students



Image 01
<https://caruso.arch.ethz.ch/project/732>

Sources
 Docter, R. (n.d.) Hilversum Tuinstad. Steengoed Gooi. <https://steengoedgooi.nl/hilversum-tuinstad/>
 De Klerk, L., Van der Wouden, R. (2021) Ruimtelijke ordening. nai010
 Meyer, H., Hoekstra, M.J., Westrik, J. (2020). Stedenbouw: kern en perspectieven. Boom.

Hilversum, Garden City of Tomorrow

Ideal living between city and countryside?

Few ideal city visions have had such a far reaching influence on the planning of our cities as had the idea of the 'garden city'. The idea of the garden city emerged first in England, and was propagated by figures like Ebenezer Howard and Raymond Unwin, as a response to the poor living conditions of the nineteenth century industrial city. The garden city proposed a new spatial model for urban development. Instead of allowing unrestrained urbanisation, Howard proposed a deconcentrated growth model, by planning garden cities as finite, small-scale, and economically self-dependent satellite cities in a green setting. Garden cities would incorporate both the advantages of living in the city and living in the countryside.

Variations of the garden city idea inspired city planners all over the world, not least in The Netherlands. An exemplary case in The Netherlands is the town of Hilversum, in which the ideas of the garden city were employed on the scale of an entire town. W.M. Dudok, who was appointed as Hilversum's public works director in 1915 and as city architect in 1928, designed not only its well known town hall (completed in 1931), but also no less than ten neighbourhoods and nineteen schools according to spatial and social principles of the garden city, brought together in a coherent vision on the town as a complete whole. Dudok stayed involved in the development of Hilversum until his death in 1974.

For this project, we are forming a collaboration with the Municipality of Hilversum. The project challenges you to develop a design proposal addressing the past, present and future of the garden city idea in the context of Hilversum. You will study the history of the garden city idea, and critically analyze how this idea was realized in Hilversum, from the scale of the city to the scale of the house (and the garden). What has become of the garden city ideals in present-day Hilversum? Of course, the social, economic and technological circumstances of present-day life have changed almost unrecognizably since the beginning of the twentieth century. So how can the garden city connect to present-day desires and challenges? How should Hilversum build forth on its garden city 'DNA'?

ir. Rik de Bondt

7QX1Mo
 semester A, quartile 1-2
 10 ects
 10 students



Image 01
 Architecture School
 Nantes, archs. Lacaton &
 Vassal. Retrieved from:
 from www.architecture
 decollection.fr

ETT - Easy to Transform

The project “Easy to transform” focusses on how to build for future transformation(s). Creating buildings that can adapt to changes over time will be our main goal. With the given design brief you will need to look beyond the initial program to develop an intelligent structure open for transformation.

“Architecture (...) can in principle be understood as a contramal of its design requirements: a snapshot of guidelines, thoughts and dreams for human lives and how to accommodate these. These design requirements are constantly evolving in the wake of changes in the views of people and society. These changes start at the moment architects begin to design a building; and this programmatic change never stops, not even after completion. This happens because life is ever changing. Unfortunately, a building usually only complies with the original design requirements. Much architecture comes with an element of friction.” [1]

A longer building lifespan means less demolitions and waste, more efficient material use and reuse of valuable resources. Making sure new buildings can easily be transformed in the future could therefore be considered one of our best strategies towards a more sustainable built environment.

What can we learn from ETT examples? How can we create new intelligent ETT buildings that are perfectly adaptable to time but also fit in their context?

Goal: design a mixed use ETT building (2024) and show how this building can be transformed in two transformation phases, (2035 and 2045).

[1] R. Roorda and B. Kegge, Vital Architecture, Naio10 Rotterdam, p. 20

ir. Ruurd Roorda

Femke Stout MSc

7QX1Mo
 semester A, quartile 1-2
 10 ects
 max. 20 students

Urban Housing - Living in the City



Image 01
Social Life and Climate
Resilience embedded
into design.
Alesia Prendi
Urban Housing Studio
'The Courtyard'

Housing serves as the fundamental and essential unit of a city. Providing adequate housing poses the greatest challenge for cities, as they strive to create high-quality urban environments that go beyond mere accumulation of dwelling units. The quality of living spaces intersects with the quality of public spaces, requiring designs which go beyond functional requirements and embrace a sense of generosity that enables freedom of occupation.

This studio delves into the design of residential environments and urban neighbourhoods. Students will explore the interplay between the following aspects:

- Densification strategies and urban structure
- Residential typologies and open-space design
- Functionality and flexibility of use
- The public, private, and collective domains
- The floor plan and daily life

The studio encompasses three phases:

I. Research, Analysis and Urban Strategy

Students begin by conducting research and developing an ongoing database of housing projects. Through an analysis and comparison of various case studies, students establish the foundational building blocks and design principles for their own projects.

II. Design

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

III. Presentation

This phase allows students a focused period to produce key drawings and visualizations, honing their detailed design and presentation techniques.

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

MA B.arch. Daryl Mulvihill

7QX1Mo
semester A, quartile 1-2
10 ects
10 students

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7QW1Mo, quartile 1-2
Masterprojects Urbanism

Introduction
Masterprojects Urbanism

UUAo2 Brabant WaterLand
ir. Marian de Vries, ir. Kevin Pulles
m.j.d.vries.1@tue.nl, k.pulles@tue.nl

UUAo3 Designing the Climate Resilient City
ir. Evi van de Logt, ir. Joeri Sowka, Diana Carrillo Silva MSc
e.m.a.v.d.logt@tue.nl, j.sowka@tue.nl, d.carrillo.silva@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 urbanism masterprojects for Sem A 2024-2025. The contact person for the chair is as follows:

1. Urbanism and Urban Architecture (UUA)

prof. dr. ir. Pieter van Wesemael, p.j.v.v.wesemael@tue.nl

The short introductory descriptions 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 masterprojects slightly alter their theme or emphasis as a result of changes in staff.

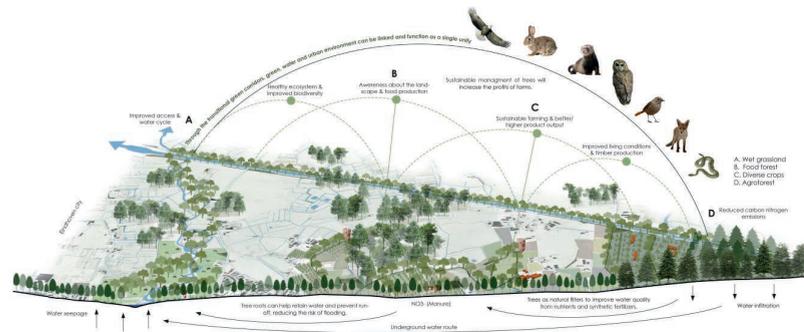
Enrolling in a masterproject:

1. You need to enrol in Osiris before the closing of the registration term (**August 25, 2024**). If you register too late the first possibility to start with your masterproject is Sem B 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 masterproject does not reach a minimum of ten students, it is possible that this specific masterproject will not proceed. Looking forward to meeting you in our masterprojects!

Brabant WaterLand

Image 01:
Section of "Ecolink":
Cultivating connectivity
in the countryside by
Alexia Chatzistamatiou



This studio will focus on the spatial and programmatic developments in some smaller or midsize municipalities around the 'Naad van Brabant' near Waalwijk, Drunen, Oosterhout etc. In this area, water plays a special role because the groundwater is influenced by seepage from the higher grounds of Brabant. The new policy named 'Water and soil as a principle for all new developments' will have a big impact on this region. The aim for the 'Naad van Brabant' is to adapt the landscape to climate change. By making the landscape as a sponge, it both protects the land against flooding and makes it robust in times of drought. By doing this, the groundwater level will rise, which will affect agriculture, urbanization, heritage and nature. The exact effects are unknown yet.

The province, waterboard and municipality are aiming to study these effect 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.

In this studio we work together with the province, waterboard and a municipality. We will develop different scenario's for the effects of the rising groundwater level. The starting point of this collaboration is that the regional water structure could be a productive way to connect different challenges. The aim of this studio is to provide the governments new insights in the effects of a new water system on spatial developments.

Keywords: **Scales:** provincial, regional, local; **Themes:** climate adaptation, 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

ir. Kevin Pulles

7QW1Mo
semester A, quartile 1-2
10 ects
10 students



Image 01
Design by Inge Tim-
mermans (2022-2023
Semester A)

Designing the Climate Resilient City

With a changing climate and the rising frequency of extreme weather conditions the need for improving the water system within the city is becoming increasingly urgent. This studio will focus on the integration of sustainable water solutions in a residential neighbourhood in Eindhoven. The challenge of developing water resilient cities is not so much the development of new technical or spatial solutions: a huge 'catalogue' of measures is widely available. The main obstacle in developing water resilient cities is the complexity of the development process. The transition to a resilient system requires the integration of many aspects and involves many stakeholders. Solutions for water-related problems are often purely technical. The aim of this project is to deal with urban water not as a 'problem' but as an 'opportunity' for the city. Water has enormous potential to enhance the spatial quality and the liveability of a city. If creatively done, embedding water into the city can add tremendous value. Nevertheless, it is often difficult to make a clear case to 'prove' the added value of a well-designed water solution.

Besides a focus on integrating sustainable urban drainage solutions, there are other inter-linking (sustainability) challenges and developments that influence our cities: the energy transition, social challenges, new mobility systems, and many more. The aim of this studio is to think integrally about these challenges and to create added value for the city and its inhabitants. The starting question of the case will be on how to become climate resilient, but we will also try to answer other questions related to the mobility transition, the housing shortage, health & well-being, biodiversity and more. In this studio we will be working closely with the experts from Waterboard De Dommel and Eindhoven Municipality. Students will design innovative solutions that improve upon the water system and the spatial quality. A team of experts will then assess these results (both qualitatively and quantitatively). After this assessment students will improve their designs and report the results back to the expert group.

This studio is part of the Climate Resilient City DesignLab, a collaboration between Eindhoven Municipality, Waterboard De Dommel and TU/e UrbanLabs. For more information see: www.tue-urbanlabs.nl

Keywords: **Scales:** Region, City, Neighbourhood. **Themes:** Water, Sustainable Development, Public Space, Housing, Energy. **Competencies:** System Research, Spatial Research, Urban Design.

ir. Evi van de Logt

ir. Joeri Sowka

Diana Carrillo Silva MSc

7QW1Mo

semester A, quartile 1-2

10 ects

10 students

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7XW1Mo, quartile 1-2
Combined Masterproject

Introduction
Combined Masterproject

RA/UUAo1 **Antwerp – Kievit Fase 1**
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 ects instead of the regular 120 ects. 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 the chair of Rational Architecture (contact person: dipl. ing. Haike Apelt, h.apelt@tue.nl) and the chair of Urbanism and Urban Architecture (contact person: 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/register-tracks/au-de-for-architects-and-urbanists-register-combined>

Antwerp – Kievit Fase 1



Image 01
Antwerpen, study area
and project area "Kievit
Fase 1"

The combined Masterproject 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) may apply for the combined Masterproject. Please take the necessary steps in the selection procedure when applying for this project!

The studio is devoted to the typomorphological analysis of the city of Antwerp, focusing on a specific area presently in development (both in building as in plan making) around the south entrance of the Antwerp Central Station (part of the so-called "Stadsbouwmeesterproject"). While the study area includes a wider context and several planning- and building activities, the project area is focused on the so-called "Kievit Fase 1", the place of the to-be-demolished office buildings east of the southern station, including the building of the station itself.

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.

dipl.-ing. Haike Apelt

MA B.Arch. Daryl Mulvihill

7XW1Mo
semester A, quartile 1-2
10 ects
10 students

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7X45Mo, quartile 1
Graduation Studios Architecture

Introduction
Graduation Studios Architecture

- ADEo1/AHTo1 The Power of Imagination**
dr. Jacob Voorthuis, dr. dipl.-ing. Torsten Schröder, ir. arch. Barbara Kuit
j.c.t.voorthuis@tue.nl, t.w.a.schroeder@tue.nl, b.c.i.m.kuit@tue.nl
- ADEo2 Resilient Architecture 5: Crossing Borders**
ir. John Swagten, ir. Tom Veeger
j.p.m.swagten@tue.nl, t.t.veeger@tue.nl
- ADEo3 Urban Islands – Cherishing nature in the Metropolis**
prof. ir. Juliette Bekkering, dr.-ing. Cristina Nan
j.d.bekkering@tue.nl, i.c.nan@tue.nl
- SATo1 Stimulating Healthy Environments (SHE)**
prof.dr.ir. Masi Mohammadi, ir. Leonie van Buuren, EngD, ir. Jochem Groenland
m.mohammadi@tue.nl, l.p.g.v.buuren@tue.nl, j.groenland@tue.nl
- UUAo1/RAo1 Intermediate Architecture as transformative tool**
drs. ir. Like Bijlsma, ir. Jochem Groenland, ir. Narindath Maraj
e.bijlsma@tue.nl, j.groenland@tue.nl, n.maraj@tue.nl
- RAo2 Firenze Analogo**
dipl.-ing. Haïke Apelt, ir. Wouter Hilhorst
h.apelt@tue.nl, w.hilhorst@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/programs/graduate-school/masters-programs/architecture-building-and-planning/curriculum/graduation-project>

There are five chairs offering Graduation Studios in Architecture. Most of them collaborate with other chairs in the Architecture and Urban Design (AUDE) unit. The contact persons for each chair are as follows:

1. **Architectural History and Theory (AHT)**
Associate professor dr. Jacob Voorthuis, j.c.t.voorthuis@tue.nl
2. **Architectural Design and Engineering (ADE)**
prof. ir. Juliette Bekkering, j.d.bekkering@tue.nl
3. **Rational Architecture (RA)**
dipl. ing. Haike Apelt, h.apelt@tue.nl
4. **Smart Architectural Technoloiges (SAT)**
prof. dr. ir. Masi Mohammadi, m.mohammadi@tue.nl
5. **Urbanism and Urban Architecture (UUA)**
prof. dr. ir. Pieter van Wesemael, p.j.v.v.wesemael@tue.nl

The short introductory description of the graduation 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 – starting in quartile 1:

1. Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term (**August 25, 2024**). If you register too late the first possibility to start with your graduation project is Sem A 2024-2025, quartile 2.
2. You have to subscribe with a first and second choice. This is possible until Sunday **August 25, 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 **August 26, 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). Be aware: without a motivation letter, you won't be assigned to a graduation 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 a graduation studio we would like to refer to the Graduation Guide AUDE which can be found at the AUDE website: <https://educationguide.tue.nl/programs/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!



Image 01
NASA, Earthrise, 1968.
This image, the first colour photo of the planet earth from space, helped to launch the environmental movement. Retrieved from: <https://www.nasa.gov/image-article/earthrise-3/>



Image 02
World Expo 2025 Osaka in Japan. Retrieved from: <https://tokyo.nl/japan/osaka/world-expo-2025/>

The Power of Imagination

In this research and design studio we will envision Circular Futures through radical architecture. We shall combine pragmatic, cultural, and architectural perspectives to explore the role of architecture within the circular turn with a specific focus on imagination and radical change. We will explore the narratives that drive change. While there are many doomsday scenarios of futures, there is surprisingly a lack of hopeful and attractive imaginations of circular futures. No doubt we shall have to give up on certain things, but there is also a lot that we can gain from the transition. To overcome the ‘crisis of imagination’ we will focus on positive visions and how these can be shaped through architecture.

Architects, through their heightened capacity to imagine, have the potential to ask questions, inspire new thinking, create scenarios and envision potential futures. The power of the imagination and dreaming can be a crucial driver to overcome the status quo and think outside the box. Speculative scenarios can open up new opportunities, make ideas tangible, discussable and help bring them from the future into the present. Imagination is a concept far more frequently invoked than it is analysed. How do we study imaginaries? How can we inspire new thinking and develop radical visions and scenarios of sustainable futures? How do we want to live in the future?

Collectively we will first explore forms of radical architecture in history through their theories, positions, and architectural manifestations, and second “techniques of futuring” through selected thinkers and related conceptual tools. Together we will go on an excursion to visit radical architecture manifestations and desirable future propositions.

Our design context will be to collectively design a World Expo. World Expos are global gatherings of nations dedicated to finding solutions to pressing challenges of our time. The first World Expo took place in London in 1851, and have since been organised around the globe, with thematic missions aiming to improve the entanglement of human life, knowledge, technology, nature, economic and social progress. We will focus on the Expo 2030 themed “The Era of Change”. Individually, we will focus on creating futures visions, concepts for radical architectural, and circular proposals through individual research topics, to develop a compelling architectural design that bridges all scales from urban strategy to exemplary detail.

dr. Jacob Voorthuis

dr. dipl.-ing. Torsten Schröder

ir. arch. Barbara Kuit

7X45Mo

semester A, quartile 1 (1-2-3-4)

45 ects

10 students



Image 01
Fort Vechten patio with
waterline model in
concrete. Photo by John
Swagten.

Image 02
Intervention in 1940
defence work by Raaf
Rietveld. Photo by John
Swagten.

Image 03
Atlantic wall bunker
Texel. Photo by John
Swagten.

Resilient Architecture 5: Crossing Borders

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. The border of water and land along the New Hollandse Water Linie and the Atlantic Wall will be the focus of the studio. In various future scenarios, both areas face the issue of rising water.

We are living in the Anthropocene, a human-dominated biosphere challenging the resilience of a liveable planet. Weather extremes, such as droughts, heat waves, sea level rise and consequent floods are major threats to inhabitants’ lives and the future development of the Netherlands. Is Resilient design the way to achieve preparedness and can help in experiencing the surrounding water as an opportunity instead of a problem? We are going to explore this question in our graduation studio.

Scattered along the coast but also further inland are the silent remains of several defence lines from the past in which water played an important role. Apart from the bunkers of the Atlantic Wall, the Netherlands had the New Hollandse Water Linie during the First World War. It is a defence line 85 kilometres long and runs from Muiden to the Biesbosch where water plays an important role. (45 forts, 6 fortresses, 2 castles and many shelters, casemates and sluices). Are we able to learn from the past and how to deal with the history of a place?

The work will be carried out in 2 steps: research phase in groups of 2-3 persons; individual design proposal.

Step 1: We’ll start with the exploration of future concepts that embody climate (water) adaptability in the Netherlands and the theory of ‘Resilience’ design.
Step 2: individual design proposal. Each student will answer his/her research question through an individual design proposal for a water-related building (complex). Each student will choose his/her location and program.

Some field trips and a workshop (focus on concrete) will be offered during the graduation period. An excursion to Venice will provide additional knowledge on water-related issues.

ir John Swagten

ir. Tom Veeger

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



Image 01
View of the Hong Kong
Archipelago. Retrieved
from: [https://earth.org/
lantau-tomorrow-vision/](https://earth.org/lantau-tomorrow-vision/)

Urban Islands — Cherishing nature in the Metropolis

Within our heavily densified cities we encounter small islands in metropolitan contexts which although neglected, hold an invaluable potential ready to be explored in this graduation studio. These urban river islands, which often go unnoticed due to their small scale, offer a sharp contrast between the super high densities of the city and pristine nature. They form the “common ground“ of this graduation studio. Our cities are particularly challenged by habitat destruction and an accelerating urbanization. We explore these small urban islands and the significant roles they can play in urban life, offering an escape back to nature within highly urbanized and dense areas. Examples of such urban islands are the Forteiland Pampus in Amsterdam, the Stvanice Island in Prague, the Eiland van Brienoord in Rotterdam or even more extreme the Hong Kong Archipelago.

These urban islands are characterized by the clashing duality of pristine nature and biodiversity versus extreme urbanization and infrastructural development. A stark contrast is to be found between traditional activities such as urban agriculture as in the case of the Eiland van Brienoord and the surrounding urban high-tech interventions. The studio focuses on this contrasting duality and the challenge of combining untouched nature with new and existing developments.

The studio is anchored around a collaboration with the Chinese University of Hong Kong (CUHK) and specifically Assistant Professor Inge Goudsmit. We undertake an exciting two-weeks field research trip to a location which is yet to be confirmed, including intensive on-site workshops, mapping exercises and expert talks. We will undertake research, we will construct strong concepts and develop specific toolkits to address the challenge of conserving and strengthening nature with its ecological biodiversity.

You will be challenged to develop inspiring architectural solutions to the problems relating to biodiversity, environmental decline, local ecosystems versus the high density urbanization. Addressing these challenges requires a nature-centric thinking, by combining approaches relating to architectural-landscape design, climatic architecture, circularity and advanced tools of computation. You will develop concepts relating to hybridized programs reconciling environmental conservation, recreational spaces, biodiverse public spaces and eco-tourism. The issue of materiality and making is a key consideration: material choices have to be locally sourced, sustainable and circular building strategies should be integrated. Notions of craftsmanship, local material culture and climate mitigation are central to the development of your conceptual approach.

prof. ir. Juliette Bekkering

dr.-ing. Cristina Nan

in collaboration with ir. Inge Goudsmit

7X45Mo

semester A, quartile 1 (1-2-3-4)

45 ects

12 students



Image 01
Tranquil user-centered architecture for senior citizens with dementia. Retrieved from: <https://houbennv.be/referentie/zorg/campus-dommelhof-tieltwinge/#images-5>

Collaboration:
We will work in close collaboration with the care organisation Treant and the housing association Domesta. The partnership with an architectural studio at TU Delft, led by experts from Veldacademie, will further enhance your learning and design capabilities.

Stimulating Healthy Environments (SHE)

Research-based design for inclusive architecture for citizens (with dementia)

The Dutch population is rapidly ageing, presenting an opportunity for you, as future architects, to explore the potential of smart, healthy architecture in designing suitable living environments for them. Ageing brings physical and cognitive challenges, such as mobility issues and dementia. Research has shown that well-designed living environments can enable senior citizens (with dementia) to age in place and continue to be active members of society. Mental health and the familiarity of environments are crucial in enhancing the livability of spaces.

In this studio, you will design spaces that foster mutual support and attentiveness and provide specialized support for seniors with dementia. You will explore the complex interplay of daily rituals, routines, and the progression of time, adapting spaces to the needs of an ageing population. A deep understanding of users' needs, preferences, and daily activities is crucial; which you will gain through observational studies in a nursing home and a neighborhood in Emmen. You will consider not only the structure and habits of their daily routines but also the rich experiences embedded in their rituals, such as gardening or how they interact with outdoor areas.

Drawing inspiration from the serene principles of Japanese architecture and the health-oriented lifestyles of Blue Zones, this studio aims to develop innovative concepts for inclusive living environments that support both self-reliance and social connection. Integrating social innovation and emerging technologies such as VR, AR, sensor technology, and AI into architectural concepts will form the foundation of your human-centered design solutions. The studio process encompasses conducting research, developing, and designing environments that promote health and well-being. Research and design go hand in hand, ensuring a thorough understanding and innovative application in all your projects. You will participate in workshops, excursions, and a livinglab project, allowing you to interact closely with the target group and refine your solutions based on real-life feedback.

This studio challenges you to think critically and creatively about the role of architecture in shaping the lives of an ageing population. How will you use your skills to make a real difference in creating supportive, adaptive, and inclusive environments?

prof.dr.ir. Masi Mohammadi

ir. Leonie van Buuren, EngD

ir. Jochem Groenland

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

Intermediate Architecture as transformative tool



Image 01
Palazzo San Felice,
Napels. Foto: grad.
students 2022



Image 02
'Spaarndammerhart',
Amsterdam. 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? This studio explores different ways to transform the city from within, by uncovering its architectural core. We will look at three dimensions of the urban identity:

- Intermediate typologies; architectural ensembles which can intermediate between the urban culture and the collective and private sphere, and can host a great diversity of users.
- Architectural language; a hybrid between vernacular dwelling conventions and cultural representation.
- The building technique; resulting in a certain materiality created by the use of local materials using local craftsmanship.

These three aspects form the essence of a local 'building culture', to be studied by comparing three specific cities in The Netherlands, Italy and France. In three 'workshop-travels' to different cities we will analyse the dimensions of urban identity, and will formulate - through research-by-design - specific local architectural concepts. These will be developed into critical architectural models and typologies for urban transformation which can drive both the social and functional transformation of the city in a more sustainable way. They offer long-term solutions and a gradual evolution of architectural identity and architectural language. We will test these models on different sites (transformation sites, greenfield sites) which are appointed for solving the housing crisis. The studio results in an individual design for an architectural ensemble which builds on local architecture, using local culture, materials and skills. These ensembles - for a diversity of inhabitants - bring in specific urban conditions and housing qualities: semi-public or collective rooms, spheres or zones - a new inner world of the city consisting of intimate courtyards, alleys, patios, enclosed gardens, This studio is the fourth of a sequence of seminars and graduation studio's studying the 'Tussenmaat'* from a spatial, socio-cultural and esthetic perspective. Both the research and the project will contribute to a body of work that will form the basis for a follow-up publication.

*The Intermediate
Size - A Handbook For
Collective Dwellings,
SUN 2006

drs. ir. Like Bijlsma

ir. Jochem Groenland

ir. Narindath Maraj

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

Firenze Anologo



Image 01
Galeria Uffizi



Image 02
Laurentian Library

The studio is organized by the chair of Rational Architecture, which focuses on an architectural tradition that builds on the idea of ‘type’ as the constant carrier of architectural design. Continuity as architectural culture, ‘Weiterbauen’ in German, in order to respond to contemporary building conditions, characterizes this position. The studio will be devoted to the morphological and typological analysis of the city of Florence. In the studios of the past years a method has been developed that is strongly based on drawn analysis, in which the critical relationship between the urban condition and the architectural project is studied. In the first semester, the morphological genesis and transformation of the city and related building types is being studied. 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)form(ation) of the city. This collective effort will result in a so called ‘atlas’, which consists of essays and analytical drawings (maps) and which will form the basis for the individual design projects in the second semester.

Following the same general set up, this year’s theme is a more focused one, concentrating on the issue of TYPES and the method of ANALOGY. We will look at architectural types that make up the city on different (scale)levels: the urban space, the building, the spatial unit, and the architectural element. Florence is an exemplary case because its types - for example: the monastery, the palazzo, the courtyard, the library, the arcade, the loggia - have developed with an exceptional clarity, condensing the experience of historic examples in forms that in turn serve as models within a greater typological development of an architectural vocabulary that has its roots in the past but forms -more than ever- the necessary fundament for contemporary projects. Seeing form and meaning as related through a typological understanding of architecture enables us to use existing knowledge and further it through the project. (from Latin “to throw forward”). The preferred method for this is analogy. This way, not only the analysis, but the project itself is a tool for knowledge, continuing and at the same time updating (aka. changing) the types and forms of architecture.

In order to implement the aspect of international experience (15 ects), a three month’ stay in Florence is an integral part of the studio. We will work closely together with Prof. Francesco Collotti at the University of Florence. Thanks to an exclusive Erasmus-agreement, students can apply for a grant, supporting their stay abroad.

dipl-ing. Haike Apelt

ir. Wouter Hilhorst

7X45Mo + 7X15Mo
semester A, quartile 1 (1-2-3-4) (within this period: 1 quartile abroad)
45 ects + 15 ects; (incorporating international experience)
8 students max.; if more students apply, we select by portfolio

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7X45Mo, quartile 2
Graduation Studios Architecture

Introduction
Graduation studios Architecture

ADEo1/AHTo1 The Power of Imagination
dr. Jacob Voorthuis, dr. dipl.-ing. Torsten Schröder, ir. arch. Barbara Kuit
j.c.t.voorthuis@tue.nl, t.w.a.schroeder@tue.nl, b.c.i.m.kuit@tue.nl

ADEo2 Resilient Architecture 5: Crossing Borders
ir. John Swagten, ir. Tom Veeger
j.p.m.swagten@tue.nl, t.t.veeger@tue.nl

UUAo1/RAo1 Intermediate Architecture as transformative tool
drs. ir. Like Bijlsma, ir. Jochem Groenland, ir. Narindath Maraj
e.bijlsma@tue.nl, j.groenland@tue.nl, n.maraj@tue.nl

Introduction

Graduation studios Architecture

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There are four chairs offering Graduation Studios in Architecture. Most of them collaborate with other chairs in the Architecture and Urban Design (AUDE) unit. The contact persons for each chair are as follows:

1. **Architectural History and Theory (AHT)**
Associate professor dr. Jacob Voorthuis, j.c.t.voorthuis@tue.nl
2. **Architectural Design and Engineering (ADE)**
prof. ir. Juliette Bekkering, j.d.bekkering@tue.nl
3. **Rational Architecture (RA)**
dipl. ing. Haike Apelt, h.apelt@tue.nl
4. **Urbanism and Urban Architecture (UUA)**
prof. dr. ir. Pieter van Wesemael, p.j.v.v.wesemael@tue.nl

The short introductory description of the graduation 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 – starting in quartile 2:

1. Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term (**August 25, 2024**). If you register too late the first possibility to start with your graduation project is Sem B 2024-2025, quartile 3.
2. You have to subscribe with a first and second choice. This is possible until Sunday **August 25, 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 **August 26, 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). Be aware: without a motivation letter, you won't be assigned to a graduation 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 a graduation studio we would like to refer to the Graduation Guide AUDE which can be found at the AUDE website: <https://educationguide.tue.nl/programs/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!



Image 01
NASA, Earthrise, 1968.
This image, the first colour photo of the planet earth from space, helped to launch the environmental movement. Retrieved from: <https://www.nasa.gov/image-article/earthrise-3/>



Image 02
World Expo 2025 Osaka in Japan. Retrieved from: <https://tokyo.nl/japan/osaka/world-expo-2025/>

The Power of Imagination

In this research and design studio we will envision Circular Futures through radical architecture. We shall combine pragmatic, cultural, and architectural perspectives to explore the role of architecture within the circular turn with a specific focus on imagination and radical change. We will explore the narratives that drive change. While there are many doomsday scenarios of futures, there is surprisingly a lack of hopeful and attractive imaginations of circular futures. No doubt we shall have to give up on certain things, but there is also a lot that we can gain from the transition. To overcome the ‘crisis of imagination’ we will focus on positive visions and how these can be shaped through architecture.

Architects, through their heightened capacity to imagine, have the potential to ask questions, inspire new thinking, create scenarios and envision potential futures. The power of the imagination and dreaming can be a crucial driver to overcome the status quo and think outside the box. Speculative scenarios can open up new opportunities, make ideas tangible, discussable and help bring them from the future into the present. Imagination is a concept far more frequently invoked than it is analysed. How do we study imaginaries? How can we inspire new thinking and develop radical visions and scenarios of sustainable futures? How do we want to live in the future?

Collectively we will first explore forms of radical architecture in history through their theories, positions, and architectural manifestations, and second “techniques of futuring” through selected thinkers and related conceptual tools. Together we will go on an excursion to visit radical architecture manifestations and desirable future propositions.

Our design context will be to collectively design a World Expo. World Expos are global gatherings of nations dedicated to finding solutions to pressing challenges of our time. The first World Expo took place in London in 1851, and have since been organised around the globe, with thematic missions aiming to improve the entanglement of human life, knowledge, technology, nature, economic and social progress. We will focus on the Expo 2030 themed “The Era of Change”. Individually, we will focus on creating futures visions, concepts for radical architectural, and circular proposals through individual research topics, to develop a compelling architectural design that bridges all scales from urban strategy to exemplary detail.

dr. Jacob Voorthuis

dr. dipl.-ing. Torsten Schröder

ir. arch. Barbara Kuit

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



Image 01
Fort Vechten patio with
waterline model in
concrete. Photo by John
Swagten.

Image 02
Intervention in 1940
defence work by Raaf
Rietveld. Photo by John
Swagten.

Image 03
Atlantic wall bunker
Texel. Photo by John
Swagten.

Resilient Architecture 5: Crossing Borders

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. The border of water and land along the New Hollandse Water Linie and the Atlantic Wall will be the focus of the studio. In various future scenarios, both areas face the issue of rising water.

We are living in the Anthropocene, a human-dominated biosphere challenging the resilience of a liveable planet. Weather extremes, such as droughts, heat waves, sea level rise and consequent floods are major threats to inhabitants’ lives and the future development of the Netherlands. Is Resilient design the way to achieve preparedness and can help in experiencing the surrounding water as an opportunity instead of a problem? We are going to explore this question in our graduation studio.

Scattered along the coast but also further inland are the silent remains of several defence lines from the past in which water played an important role. Apart from the bunkers of the Atlantic Wall, the Netherlands had the New Hollandse Water Linie during the First World War. It is a defence line 85 kilometres long and runs from Muiden to the Biesbosch where water plays an important role. (45 forts, 6 fortresses, 2 castles and many shelters, casemates and sluices). Are we able to learn from the past and how to deal with the history of a place?

The work will be carried out in 2 steps: research phase in groups of 2-3 persons; individual design proposal.

Step 1: We’ll start with the exploration of future concepts that embody climate (water) adaptability in the Netherlands and the theory of ‘Resilience’ design.
Step 2: individual design proposal. Each student will answer his/her research question through an individual design proposal for a water-related building (complex). Each student will choose his/her location and program.

Some field trips and a workshop (focus on concrete) will be offered during the graduation period. An excursion to Venice will provide additional knowledge on water-related issues.

ir John Swagten

ir. Tom Veeger

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

Intermediate Architecture as transformative tool



Image 01
Palazzo San Felice,
Napels. Foto: grad.
students 2022



Image 02
'Spaarndammerhart',
Amsterdam. Foto: Dennis
de Smet.

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Size - A Handbook For
Collective Dwellings,
SUN 2006

drs. ir. Like Bijlsma

ir. Jochem Groenland

ir. Narindath Maraj

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

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7W45Mo, quartile 1
Graduation Studios Urbanism

Introduction
Graduation Studios Urbanism

UUAo1 Density and other Matters
dr.ir. Dena Kasraian, Aroosha Zahid MSc
d.kasraian@tue.nl, a.zahid@tue.nl

Introduction

Graduation Studios Urbanism

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There is one chair offering Graduation Studios in Urbanism. The contact person for the chair is as follows:

1. Urbanism and Urban Architecture (UUA)

prof. dr. ir. Pieter van Wesemael, p.j.v.v.wesemael@tue.nl

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Enrolling in a graduation studio – starting in quartile 1:

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Looking forward to meeting you in our graduation studios!



Image 1
Eindhoven skyline
©BlowUp Media

Density and other Matters

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

dr.ir. Dena Kasraian

Aroosha Zahid MSc.

7W45Mo

semester A, quartile 1 (1-2-3-4)

45 ects

10 students

7QX5Mo, quartile 1
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7QX5Mo, quartile 2
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7QX1Mo, quartile 1-2
Masterprojects Architecture

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7X45Mo, quartile 1
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7X45Mo, quartile 2
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Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7W45Mo, quartile 2
Graduation Studios Urbanism

Introduction
Graduation Studios Urbanism

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d.kasraian@tue.nl, a.zahid@tue.nl

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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

dr.ir. Dena Kasraian

Aroosha Zahid MSc.

7W45Mo

semester A, quartile 1 (1-2-3-4)

45 ects

10 students

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7X6oMo, quartile 1
Graduation Studios Architecture & Urbanism

RAo1/UUAo1 **Unbuilt Antwerpen**
dipl. -ing. Haike Apelt, MA B.Arch. Daryl Mulvihill
h.apelt@tue.nl, d.m.mulvihill@tue.nl



Image 01
Morphological map of
Antwerp 2016 (Source:
Atlas of the graduation
studio "Antwerpen – De
Getekende Stad", 2016)

Unbuilt Antwerpen

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 is devoted to the typomorphological analysis of the city of Antwerp, focusing on the genesis and transformation of the city over time, the multiple reasons of its contemporary condition.

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. We will, in this research, focus on the built, but also -and in particular- on the unbuilt, meaning the imagined, planned, and unfinished urban plans that each stand for a particular idea (and perhaps also ideal) 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.

dipl.-Ing. Haike Apelt

MA B.Arch. Daryl Mulvihill

7X6oMo
semester A, quartile 1 (1-2-3-4)
60 ects

7QX5Mo, quartile 1
Seminars Architecture and Urbanism

7QX5Mo, quartile 2
Seminars Architecture and Urbanism

7QX1Mo, quartile 1-2
Masterprojects Architecture

7QW1Mo, quartile 1-2
Masterprojects Urbanism

7XW1Mo, quartile 1-2
Combined Masterproject

7X45Mo, quartile 1
Graduation Studios Architecture

7X45Mo, quartile 2
Graduation Studios Architecture

7W45Mo, quartile 1
Graduation Studios Urbanism

7W45Mo, quartile 2
Graduation Studios Urbanism

7X6oMo, quartile 1
Graduation Studios Architecture & Urban Design

7QQ5Mo
International Academic Workshops

7QQ5Mo, quartile 1
International Academic Workshops

RAo1 International Academic Workshop Venice 2024: Unfolding Reality
dipl. ing. Haike Apelt, ir. Anne Marie Peters
h.apelt@tue.nl, a.peters@tue.nl



Image 01
Venice: Unfolding Reality

Unfolding Reality

The chair of Rational Architecture is participating in the International European Summer Academy in Venice, organized by the TU Dortmund. Participating also will be students from the Universities of Dortmund and Venice. The Summer Academy consists of an analytic design workshop, supported by lectures and excursions. During the workshop you will work in mixed groups, supervised by teaching staff from the different universities, which involves significant aspects of international experience on a high academic level. You will be provided with working spaces in Venice, offered by the IUAV, in the so-called ‘magazzini’ at the island of Dorsoduro. The summer Academy is a phantastic opportunity for students to obtain international experience in an academic context on a smaller scale and within a limited timeframe (compared for example to an exchange semester), getting acquainted with other ways of working, with other cultures, and of course, it is a great opportunity to make contacts and start building an international network.

For the Summer Academy, students will stay in Venice for two weeks to attend the workshop. Travel and stay have to be arranged by the students as part of the preparation. Everything else (workplaces, internet access, excursions, etc.) is arranged by the organizers and the IUAV. After the workshop, back in Eindhoven, students present the results of the Academy in an exhibition and/or a booklet.

This year’s preliminary assignment reads (excerpt): For the Summer Academy in Venice, we are looking at four themes that have made Venice what it is today. We are interested in: (1) the unprecedented infrastructural efforts necessary to ensure the survival of this city, (2) the money that made Venice rich, where it came from and who had it, (3) Politics itself is part of the conditions that make certain architectures possible or impossible, (4) the history, which we will present chronologically. We want to understand how the city has portrayed itself over the centuries and how it has been depicted in painting, literature and film. **Please register before July 8th to allow sufficient time for preparation and send an e-mail to h.apelt@tue.nl who is coordinating the participants list with the organizers! Any later requests for registration need to be done both on canvas and via e-mail as well.**

Collaboration with: Prof. Piet Eckert (Technical University of Dortmund), Prof. Wim Eckert (Technical University of Dortmund), Prof. Marco Pogacnik (University of Venice (IUAV)), and Prof. Gundula Rakowitz (University of Venice (IUAV)).

dipl. ing. Haike Apelt

ir. Anne Marie Peters

7Q05Mo

semester A, quartile 1

workshop in Venice, Italy: September 9th – 20th 2024

5 ects

max. number of participants is 18

DPM
BLT
ENV

department of the
built environment

architectural urban design
and engineering

AUDE

