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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 five chairs offering seminars:
- Architectural Design and Engineering (ADE) led by prof. ir. Juliette Bekkering
- Architectural History and Theory (AHT) led by prof. dr. Bernard Colenbrander
- Rational Architecture (RA) led by prof. Dipl.-Ing. Christian Rapp
- Smart Architectural Technologies (SAT) led by prof. dr. ir. Masi Mohammadi
- Urbanism and Urban Architecture (UUA) led by prof. dr. ir. Pieter van Wesemael

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

Enrolling in a seminar:
1 You need to enrol in Osiris before the closing of the registration term (January 5, 2020). If you register too late the first possibility to start with your seminar is Sem B 2019-2020, quartile 4.
2 We work with a maximum amount of 10 students per seminar. So the subscriptions are according to the principle ‘first come, first served’. If the seminar of your first choice has no places left, subscribe for another one.
3 During the first week of the new quartile students are invited by their tutors to visit the seminar.

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

Looking forward to meeting you in our seminars!
Emerging Technologies in Timber Architecture

Architects are now confronted with the environmental crisis more directly than ever before. Thousands of construction projects are put on hold and we become increasingly aware of our own role in causing this. The way we as architects think of our design in terms of material use has a direct influence on CO2 and nitrogen emissions. Now is the time to act and start influencing our environment in a positive way.

In this seminar you will research the new possibilities emerging technologies have to offer us which are now radically reforming the ancient craft of timber construction. With CLT and mass timber new opportunities are created for architects to build large scale structures in an environmentally friendly manner.

To experience this new materiality you will have interviews with relevant architects, meet with companies and visit construction sites. You will document some best-practice examples and distill the lessons a basic material like wood has to teach us.

The result of the seminar will be an illustrated architects manual on the use of contemporary timber techniques, exploring the current possibilities and its future potential for making architecture.
This seminar places great emphasis on the careful study of existing buildings and design principles and, in addition to that, makes extensive use of various explorative, investigative and presentation techniques and volumetric studies.

ir. Jan Schevers

7QX5M0
semester B, quartile 3
5 ects
10 students
The Formidable Façade
Facades, complex repetitive systems, hierarchy and depth

This seminar will be about careful design.

We will study the design of the façade – meticulously and with care. What makes a façade? Is it its skin? Is it the material that was used? Its underlying regularity or irregularity? Is it the detail? Or lies the essence of the façade in a much bigger picture - the fragmentation of the façade? The street as a continuous façade? We will try to unravel the concept and the logics of the façade.

In this seminar we will zoom in and out - we will study the façade while wearing blurred glasses, just looking roughly at its composition – considering lighting and darkness. We will zoom out further and look at the façade of the city in relation to the voids and public space around the façade. We will look at facades of small buildings – we will also study huge blocks and towers. And we will zoom in again and look, with precision, at the facades’ fragility, its beautiful detail, its human scale, its subtle play of texture, careful designed niches and extrusions – as enrichment of our cities.

We will investigate the logical form and structure of the façade – and so we will also come to a design ourselves. The medium we will use is drawing, axonometric drawing, 3D modeling, physical modeling, photography and writing.

Our aim is twofold - we will compile our research into a beautiful book - a reference and design handbook for all to use in your further studies.

In addition, together we will build our own skyline, consisting of several facades - one part of which is to be designed by each individual student – and we will combine this into one fantastic, huge, carefully detailed and beautiful model. This composition-model will be included into our reference book, in drawings, photos and text.

The outcome of this seminar will be used for further explorations in the seminar course ‘The Formidable Façade’ in Q4.

ir. arch. Barbara Kuit

7QX5M0
semester B, quartile 3
5 ects
10 students
The Activity of Design, a Philosophical Approach

What counts as doing an activity and what counts as doing it well? These two elementary philosophical questions lie at the basis of what we are going to investigate during this seminar. Design is a container word for all sorts of smaller sub-activities, such as observing, reflecting, composing, harmonizing, deciding, relating, killing your darlings and many more, which together make up the complex activity of design. In this seminar we are going to map all or most of the various activities that make up the design process and describe what actually counts as doing them and what counts as doing them well. Above and beyond that we are going to see how they relate to each other. This seminar will give you a chance to acquaint yourself with architectural design in a conceptually rich and very concrete way, the idea being that if you are conscious of the activities you are actually performing and have clear expectations regarding them, you will learn to do them and develop them much more sensibly and efficiently.

The end product of the seminar will be a small exhibition showing a number of panels with a very specific purpose, namely to get other people to think more interestingly about the subject of design as a collection of interrelated activities.

dr. Jacob Voorthuis

7QX5M0
semester B, quartile 3
5 ects
10 students
By transformation in architecture the ‘language’ of the intervention is very important. It determines how the old and the new relate to one another. Roughly three categories can be divided: contrast, imitation and analogy. With the last one a balance is sought between difference and equality. A subtle comparison between the old and the new. “As an aesthetic operation, the intervention is the imaginative, arbitrary and free proposal by which one seeks not only to recognize the significant structures of the existing historical material but also to use them as analogical marks of the new construction. Comparison, as difference and similarity, from within the only possible system, that particular system defined by the existing object, is the foundation of every analogy. On this analogy is constructed every possible and unpredictable meaning” (Ignasias de Solà-Morales in *From contrast to analogy*).

In order to make the comparison one must be able to recognize the specific features of the old by analysis. The Italian architect Antonio Monestirol writes about how to look at architecture and describe and identify the different elements of a building. “Type covers the general parts of the building’s formal composition. Construction has to do with the materials and techniques used. Decoration defines the form of the constructive elements” (Antonio Monestirol in *The Metope and the Triglyph*). With type, construction and decoration the parts as well as the whole can be described and identified. Starting points for an analogue approach can be found. The architectural drawing plays a key role in the analysis; architecture and the architectural drawing are inseparable, both in analysis and design.

This seminar is about research on analogue transformation in architecture. We will analyze transformed buildings in drawings and text, to get a picture of the theory and to explore positions. The result of the seminar will be a collective report with summaries, analyses (drawings and text) and a collective conclusion.

**ir. Anne Marie Peters**

7QX5M0  
semester B, quartile 3  
5 ects  
10 students
The architecture of cities tend to be chronicled by the achievements of the dominant cultures that were responsible for their rise. Often lost in these narratives, however, are the manifold contributions of non-native newcomers, immigrants, refugees, outsiders, and expatriates who played a formative role in shaping and re-purposing urban environments. Furthermore, there are also forgotten and displaced spaces and narratives of cultures which have ever been memorial part of a city, spatially, culturally and socially. One example of this phenomenon is the left over cultural and spatial traces of Jewish citizens of the city of Amsterdam. During the Second World War the majority of the Jewish citizens has been deported and murdered in concentration camps. The inquiry of the disappeared Jewish culture will be the key topic of the exhibition – Waterloo Square; The Biography of a Neighborhood - which will be organized by the Jewish Historical Museum (JHM) and the University of Amsterdam (UvA). In our seminar we will focus especially on the architectural representations of this biography. The research will be the data basis of the course ‘Architectural Analysis’ which will be given in the 4th quartile. The results of the theoretical seminar and the analytical course will be most likely exhibit in 2020 in cooperation with the JHM and the UvA.

Keywords: Scales: Neighbourhood, Ensemble, Buildings; Themes: Heritage, Urban Transformation, Public Space; Competencies: Theoretical Research, Spatial Research, Architectural Drawing.

Psychototropic Architecture - The Space of Forgotten Diasporas

Image: https://es.123rf.com/photo_47728986_arte-abstracto-caos-blanco-y-negro-pat%C3%B3n-de-fondo.html

dr. dipl-ing. Hüsnü Yegenoglu

7QX5M0
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Seminars Architecture and Urbanism

ADE03  The Formidable Facade
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AHT02  People Meet at the Biennale
dr. Sergio Figueiredo
s.m.figueiredo@tue.nl

RA02  The épistémè of the residential floorplan 1800-1930
ir. Wouter Hilhorst
w.hilhorst@tue.nl
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The short introductory description 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 (March 22, 2020). If you register too late the first possibility to start with your seminar is Sem A 2020-2021, quartile 1.
2. We work with a maximum amount of 10 students per seminar. So the subscriptions are according to the principle ‘first come, first served’. If the seminar of your first choice has no places left, subscribe for another one.
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Looking forward to meeting you in our seminars!
The Formidable Façade
Facades, concepts, techniques and geometries

Public space is something to be cherished. As architect, designing your building is not only what it’s about – the volumetric design, the interiors – equally important is the influence of your designed building has on its context, the space you leave on the outside; this left-over space you design too. The influence of the façade on the left-over space, the public space around your building – the void – is what we will study in this seminar. So, this seminar will be about careful design.

To do this, we will study the design of the façade – meticulously and with care. How does the façade influence the space around it, the space we all use? What makes a façade? Its skin? Material? Its detail? We will study the essence of the façade in the bigger picture. We will study the façade as a system, its fragmentation, the street as a continuous façade. We will try to unravel the concept and the logics of the façade.

In this seminar we will zoom in and out – we will study the façade while wearing blurred glasses, just looking roughly at its composition – considering lighting and darkness. We will zoom out further and look at the façade of the city in relation to the voids and public space around the façade. We will look at facades of small buildings – we will also study huge blocks and towers. And we will zoom in again and look, with precision, at the facades’ fragility, its beautiful detail, its human scale, its subtle play of texture, careful designed niches and extrusions – as enrichment of our cities.

We will investigate the logical form and structure of the façade – and so we will also come to a design ourselves. The medium we will use is drawing, axonometric drawing, 3D modeling, physical modeling, photography and writing. Our aim is twofold – we will compile our research into a beautiful book – a reference and design handbook on the Façade and the void - for all to use in your further studies.

In addition, together we will build our own ‘lining’ of a void in the urban tissue, created by combining several facades into one super-facade – one part of which is to be designed by each individual student – and we will combine this into one fantastic, huge, carefully detailed and beautiful combination model. This composition-model, with super façade will be included into our reference book, in drawings, photos and text.

We will make use of the outcome of the preceding seminar, in the seminar course ‘The Formidable Façade’ from Q3.

ir. Barbara Kuit

7QX5M0
semester B, quartile 4
5 ects
10 students
People Meet at the Biennale

Ever since its inception in 1980 with the famed ‘Strada Novissima,’ the Venice Architecture Biennale has continuously been a space for reflecting on the state of the architecture. Every two years, the Biennale’s Arsenale and Giardini become a space for experimentation and investigation, as multiple national pavilions and representations respond to the theme set by the guest directors for the different editions.

For the exchange of ideas, however, just as important as the installations and presentations organized at the Biennale, are the people who organize them, and the encounters facilitated by the Biennale as hordes of architecture professionals and enthusiasts descend upon Venice. As Peter Cook has once put it, “[i]f you love [the Biennale], it’s the best networking operation” as “[i]t saves a lot of time to come here and bump into everybody.”

Therefore, this seminar will investigate and analyze how different people have come together throughout the various editions of the Biennale and how relationships have been forged across them. This will be achieved by documenting the different people at the sixteen biennales (specifically, their individual background), as well as, analyzing their relations and influences through, primarily, actor-network theory. Combined with a set of questions on how people have operated at the Biennale, this seminar will develop a better understanding of the crucial social context established by the Venice Architecture Biennale.

Ultimately, this seminar’s objective is twofold: firstly, to document the people who have presented at the Biennale throughout its sixteen editions and, secondly, to analyze how these relations have shaped (and been shaped) by the Biennale. The results will be added to the website The Architecture Biennale Wiki Project, initiated by a previous seminar.

dr. Sergio Figueiredo

Award Ceremony for People Meet in Architecture, the 12th Internal Architecture Exhibition of the Venice Biennale, with Junya Ishigami, Rem Koolhaas, Kersten Geers, David Van Severen, and Bas Princen, 2010 (Giorgio Zucchiatti, La Biennale di Venezia)
The épistémè of the plan

In his book *Les mots et les choses* (‘the words and the things’, English title *The order of things* - 1966) French philosopher Michel Foucault proposed the concept of épistémè. Épistémè is the set of conditions for what is possible to be thought in a certain period of time: Foucault argues, writing about the human sciences or humanities (in his case, to be more precise, linguistics, biology and economics), that what people are able to hold true is determined and restricted by a set of implicit rules. Every mode of thinking is determined by its own system. “If we can uncover these rules, we will be able to see how an apparently arbitrary constraint makes total sense in the framework defined by these rules” (Gary Gutting in *Foucault – A Very Short Introduction*). Modes of thinking can change in history, and so can épistémès. Foucault talks about three consecutive systems of thought: that of the Renaissance, of the classical period of the 17th and 18th centuries, and the modern épistémè.

In this seminar we will try to find out whether thinking about space, or more precise thinking about the configuration of floorplans, is also determined by sets of constraints, by systems of thought. We will do this by looking at a particular period of time, from 1800 until 1930, and at a particular type of plans, those of residential buildings. We will look at the principles underlying the spatial organization of these plans, and try to trace changes in these principles over time. We will do this by precise graphical analyses of the plans. If available, we will also look at the considerations the designers had when drawing these plans, in explanations, letters or theoretical texts.

To do this, we will start by reading about Foucault (week 1), and then read and summarize essential texts about residential floorplans in the specific period of time (week 2 and 3). The following weeks will be devoted to the graphical analysis and the exploration of available texts, on the basis of which we will try to answer the main question. The result of the seminar will be a collective report with summaries, analyses, short essays and a collective conclusion.

ir. Wouter Hilhorst

7QX5M0
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10 students
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International Academic Workshops
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Masterprojects Architecture

Introduction
Masterprojects Architecture

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ADE02  Brussels Maker City
ir. Tom Veeger
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AHT01  Experimental Housing Exhibition
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RA01   The Glass Garage
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RA02   The Wall
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RA03   Tectonic Exercises #10
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UUA01  The Architecture of Power
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UUA02  Starting a Life, a Home for the Youth
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UUA03  A Future for Church Buildings. Urban Heritage & Transformation
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Introduction
Masterprojects Architecture

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- Architectural History and Theory (AHT) led by prof. dr. Bernard Colenbrander
- Rational Architecture (RA) led by prof. Dipl.-Ing. Christian Rapp
- Smart Architectural Technologies (SAT) led by prof. dr. ir. Masi Mohammadi
- Transformational Design (TD) led by prof. ir. Paul Diederen
- Urbanism and Urban Architecture (UUA) led by prof. dr. ir. Pieter van Wesemael

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

Enrolling in a masterproject:
1. You need to enrol in Osiris before the closing of the registration term. If you register too late the first possibility to start with your Master project is Sem A 2020-2021.
2. You have to subscribe with a first, second and third choice. There will be a period that Osiris will put you on a ‘waitinglist’, don’t panic! This only means that you are registered as a student to one of the masterprojects of your choice. After January 5, 2020 you will be assigned to your final masterproject.
3. During the first week of the new quartile students are invited by their tutors to visit the master project of their first or (if that particular project has been oversubscribed) their second or third choice.
4. The tutor of your 1st master project will be your mentor, for the duration of your whole master program.

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

Looking forward to meeting you in our masterprojects!
It’s not done to talk about big houses nowadays, though it’s every architect’s dream to develop a private house, without the hassle over square metres, regulations and a limited budget. But a big house is not about m2 and money, it is an opportunity to deal with several aspects of architecture such as:

- **The context**: a house needs to respond to all the opportunities of the environment, it needs to create its own freedom and relations with the setting.
- **The client**: the house needs to fit him/her and his/her family. This means that it mirrors their view on live, ambition, power, character, etc. But also, it needs to fulfil their special wishes, for instance a pool, a den, a library, etc.
- **Architecture**: it gives a chance to position yourself as an architect. This is the hardest request. It gives you the possibility and liberty to respond to the spirit of time and to express your ambition in the craft of architecture.
- **The making**: during the design and building process the quality of the product needs to constantly improve, with carefully composed sightlines, light, colours and a clear organisation. In some places the building needs to be nice, to be refined by delicate materials and in other parts it can even be brutalist. Important are the possibilities of joining and connecting different materials.

A new building method, 3D concrete printing, will be practiced as part of the elaboration.

The aim of this studio is to design an exclusive house. Clients will be people we all know. The design process starts in the first week, each student must design a villa, worked out in materials and details, tested and substantiated with big scale interior models and renderings.

Parallel to this process, students will work in couples to research two referent houses, one classic (Palladio, Mackintosh, Lutyens, Wright, Aalto etc.) and a free to choose contemporary house. Both buildings need to be studied parallel to the weekly theme of the design process.

Also during this process, we will start learning the possibilities and skills of concrete printing; to be able to use this technology in the execution of the project. Every meeting starts with a brief presentation of the research and the steps in the design process.

In the midterm the plan needs to be finished, after that we emphasize on fine modifications of the design with materials and details.

Both the design (process) and the research have to be presented in a small booklet.
Brussels Maker City

“A healthy city is a productive city. International challenges and trends underline the need to reintroduce the manufacturing industry to our regions: from manufacturing that makes the link between knowledge, innovation and production, to a circular economy committed to shorter chains and flows of materials and energy. The Flemish-Brussels metropolitan region has a large number of low-skilled unemployed, while old industrial zones languish in the city and its outskirts. The city as a melting pot of knowledge and labour is seen as the ideal breeding ground, with opportunities for the Brussels Canal Zone for developing a circular economy, and for local assembly coupled with a global logistics system” (www.architectureworkroom.eu).

The assignment is divided in three parts, Small, Medium and Large.
LARGE: To make more room in the city for an urban economy, we need to combine better, we need to stack more compact and more efficient. After doing research in teams, students will select a location in the area of the Canal Zone of Brussels and combine the two worlds, of living and working, into one building complex. Various individual architectural research studies will result in a concrete architectural design proposal. A critical analysis of the district and a reflection on the urban design and the social context (Manuel de Sola Morales and Jaime Lerner; urban acupuncture) in relation to the design, will be part of the final result. Construction, use of material and the details of the design are an integral part of the project. (www.architectureworkroom.eu/nl/work/atelier_brussels_expo_a_good_city_has_industry/videos/1601).

MEDIUM: The assignment will be to design a small info point or shop that can host different activities linked to the “Maker Movement” located in the center of Brussels. The goal of the proposed space is to become an icon for this new culture. Construction, use of material and the details of the design are an integral part of the project. (See also https://makercitybook.com/)

SMALL: 2 days excursion to the metropole Brussels.

ir. Tom Veeger

7QX2M0
semester B, quartile 3-4
10 ects
10 students
In May 1968, the Dutch Minister for Housing and Spatial Planning, W.F. Schut, issued a pamphlet which introduced the ministry’s program for “experimental housing.” Through the granting of special subsidies and exemptions from certain regulations, the ministry developed an incentive scheme to support the development of new ideas for the “home interior, construction, building materials, dwelling forms and layout,” and with it, a complete reconsideration of housing in the Netherlands.

To be officially designated an Experimental Housing Project, and obtain access to these subsidies, projects had to be approved by the Experimental Housing Advisory Committee, who then provided a recommendation to the ministry whether the project could be designated experimental. The program ran between 1968 and 1980 and was intended to support and promote innovations that could contribute to a better quality of living. 70 projects were built (of 230 planning applications) around the Netherlands between 1968 and 1977, eventually contributing to a new conception of space in the 1970s.

This program became a crucial turning point for mass housing in the Netherlands, and Dutch architecture in general. It marked a shift in architectural production where a focus on quantity was displaced by an equal focus on quality. As the variety of projects in program clearly express, housing was to be more than just shelter, while effectively responding to the changing societal conditions of the period. Ultimately, the program became a hotbed for architectural innovation particularly refining a forceful intertwining of urban planning and architecture that was to characterize Dutch architecture in the following decades.

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

**dr. Sergio Figueiredo**

7QX2M0

semester B, quartile 3-4

10 ects

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

In the first part of the project the focus is primarily on the existing building, the context is being disregarded. On the one hand the typology is being analysed thoroughly by means of reference projects and texts ('On Typology' by Rafael Moneo for instance), on the other hand the quality of the existing by means of the following concepts: structure, materialization and scale.

On the basis of this analysis an individual design is made for a given program. Not until the second part of the project will the building be visited. The context in the widest sense of the word is being analysed. Besides, the existing (hidden) qualities of the existing building are being explored in depth by means of the following concepts: light, texture, detail, sequence. The initial design in which typology, structure, materialization and scale are central will finally be embedded within the context, whereby one concept obtained from the second analysis serves as “Leitmotiv”.

Research by design and representing the analysis and the design by means of different kinds of drawings, collages and the making of several models runs as a red thread through the project.

prof. ir. Paul Diedereren
ir. Anne Marie Peters

The Wall

This studio will be devoted to one of the most primary and to some extent, one of the most neglected and feared elements in architecture: The Wall. Historically, surrounding a plot of land with a wall has been the most primitive and most effective architectural action that defines an idea of appropriation - worldwide. And it still is: the wall is a timeless element. The wall can of course be much more than an element surrounding a piece of land: it may become the complete supportive system of a building and as such become part of a tectonic system, but it may just as well be non-supportive or adaptable and only act as a definer of architectural space. Of course, a wall always has two sides, one of which may be safe, and the other one risky. This makes the wall an excellent element for inserting tranquil activities in hostile landscapes or overactive towns (or conversely). Maybe because of its two sidedness, walled architecture embodies the desire for what it beholds. It may conceal a secret.

Rather than focusing on the wall as a symbol of unwanted seclusion, the studio will target on the wall as a possible membrane of an ideal, as can be found in the words of Peter Zumthor: “Every time I imagine a garden in an architectural setting, it turns into a magical place. I think of gardens I have seen, that I believe I have seen, that I long to see, surrounded by simple walls, columns, arcades or the façades of buildings - sheltered places of great intimacy where I want to stay for a long time.”

In the studio, a short research and goal-oriented analysis will be carried out to understand the role of the wall in a variety of wall architecture, in its relation to type, space, technique and texture. Focus is on the current situation. Furthermore, a design for a series of houses and services will be made, in which the wall may play a role of importance. The design will have a collective (urban/rough) start and an individual (architectural/elaborated) end.

ir. Ruurd Roorda

7QX2M0
semester B, quartile 3-4
10 ects
10 students
Tectonic Exercises #10

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.

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. All will be synthesized into two architectural designs; a small and an elaborate one.

ir. Renato Kindt
ir. Ralph Brodruck

7QX2M0
semester B, quartile 3-4
10 ects
10 students
The Architecture of Power

When it comes to the confluence of architecture and power, capital cities occupy a place of special significance. In these cities, especially in cases where they have been explicitly designed to be capitals, the architecture and urban design sponsored by the state carries an undeniable political agenda, albeit one subject to multiple interpretations. Capital cities, by definition, need to both house and represent the seat of government and other national institutions. Capital cities are not only the result of political decisions; they are meant to embody and envelop them. One of the main concerns of this master studio is to uncover the relationship between power and architecture, or in more general terms, between politics and urban space, as this relationship is manifest particularly in the making of a capital city. Along these lines, one of the key questions of the studio will be: “What is the relationship between particular styles and designs and the power structure of the regime responsible for building the capital?” The mentioned topics will be discussed by exploring the role of political architecture, in particular megastructures and how these structures relate to/impact on working and making political decisions. Therefore, we will focus on some iconic examples like the ‘Palace of the Parliament’ in Bucharest, ‘The Presidential Complex’ in Ankara, and the ‘Reichstag’ building in Berlin.

Keywords: Scales: City, Ensembles; Themes: Public Space, Political Culture; Competencies: Social-cultural research, Spatial Research, Architectural Design, Typological Design


dr. Oana Druta
ir. Jochem Groenland
dr. Dipl-Ing. Hüsnü Yegenoglu

7QX2M0
semester B, quartile 3-4
10 ects
10 students
Starting a Life, A Home for the Youth

This project is about designing a place for young people. A place to start your life. A home is more than bricks and mortar, it can be a base for one’s social network, it should be a place where one can feel at ease. In this project we will develop an architecture for young people by considering its urban, social-cultural and economic factors.

When you are young, finding a place to live is difficult. The housing market is under pressure and your resources are limited. If it’s difficult for young starters and students, it’s even more difficult if you have to start from scratch, without a home to start from or a family to support you. This project takes the diversity of young people with varying needs and backgrounds as its point of departure. Young people that have been homeless in the past will work with you as co-researchers.

In the first phase of the project we will do research on what helps young people to thrive. Obviously, starting a life works different for everyone. For some, a home with collective spaces and amenities works best, others prefer an independent house that offers stability and tranquility. We will explore and visit various (existing) models for youth housing. The architectural, urban, social and economic aspects will be studied. Also, you will describe (existing and desired) places and ways to live. A variety of research methods will be used: e.g. ‘fotovoice’, on site surveys and interviews. This information will be used as input for the second phase.

In the second phase of the project you will develop various models (or scenarios) for a home for youth. The models will show different answers to the what (architectural and urban characteristics), the who (the social characteristics) and the how (economic and institutional factors) of building a home for youth. At the end of the second phase these models will be assessed by the co-researchers and by various experts on housing, care and project development. In the third phase you will elaborate one model into a detailed architectural project.

In this project we will collaborate with two NGO’s (SZN and NEOS) that work with and for homeless youth. Tutors are an architect specialized in housing and a researcher specialized in inclusive development.

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

ir. Marcel Musch
dr. Oana Druta

7QX2M0
semester B, quartile 3-4
10 ects
10 students
In this Architecture Master Project we will look at the transformation of church buildings within the urban fabric of cities and villages of Noord-Brabant. Church buildings almost without exception have played an important role in the local communities and are still considered significant buildings by most people. Even though less people consider themselves religious or attend religious meetings, many still see the parish as an important part of the community and would like to preserve the church building in their neighbourhood.

This Master Project will focus on the development of the parish community as social and functional entity. We will closely collaborate with the parishes in the municipality of Oss. Ideas about the transformation of the church buildings will serve as a catalyst for this process.

Church buildings mostly play an important role in the urban structure. Their potential will therefore be explored within their bigger urban context. The studio has a strong design focus, which includes urban and architectural scales. The architectural impact of the proposed transformation will be studied within its ‘urban’ context. To understand the potential of the existing building a conceptual reading of the building and its context will be done. A strong emphasis will be put on the development of a personal approach with respect to transformation and preservation in architecture.

The studio works towards a communal book and an exhibition which will build on the exhibition of previous groups (following a pre-defined format). This Master Project is part of the Urban Heritage & Transformation series. A selection of previous results can be found on: www.urbanlab.cc.

Keywords: Scales: City, Neighbourhood, Ensemble, House; Themes: Heritage, Urban Transformation. Public Space, Housing, Work Spaces; Competencies: Social-Cultural Research, Spatial Research, Urban Design, Typological Design, Architectural Design

ir. Marcel Musch
Geert Das MSc.
Parishes of Oss (partner)
Talentencampus Oss (partner)

7QX2M0
semester B, quartile 3-4
10 ects
10 students
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
7QWzm0, quartile 3-4
Masterprojects Urbanism

Introduction
Masterprojects Urbanism

UUA01 Experimental Housing 1968-1980
Daryl Mulvihill, MA
d.m.mulvihill@tue.nl
Introduction
Masterprojects Urbanism

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

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

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

Enrolling in a masterproject:
1. You need to enrol in Osiris before the closing of the registration term. If you register too late the first possibility to start with your masterproject is Sem A 2020-2021.
2. The tutor of your 1st master project will be your mentor, for the duration of your whole master program.

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

Looking forward to meeting you in our masterprojects!
In the mid 1960’s architectural and urban concepts for housing in the Netherlands started to change radically. The growth in welfare created a demand for higher quality and bigger houses. At the same time criticism on the functionalist concepts of post war housing production was growing. The post war areas were considered to be too mono-functional, repetitive, boring and lacking in human scale. In the ‘critical seventies’ (kritiese jaren zeventig) society demanded neighbourhoods that allowed for multi-functionality, for change through time, for more influence by users and would create a more human scale. The era has become (in-)famous for a range of very specific (Dutch) concepts: the so-called ‘bloemkolenwijken’ (or cauliflower neighborhoods), the ‘woonerven’ (or pedestrian friendly shared spaces), ‘centraal wonen’ (or collective housing concepts), the split-level houses and the ‘zitkuil’ (or lowered sitting area).

After the 1980’s the architecture and urbanism of the 1970’s went out of fashion. Today however, the architecture and the urbanism of the 1970’s are gaining in interest again. Firstly, there is a renewed interest in several concepts that were central to the architectural debate in the 1970’s. This includes themes such as: collective housing, flexibility allowing for change through time, and a public domain that facilitates playing kids, pedestrians and cyclists, among others. Secondly, there is growing awareness of the heritage value of post 1965 architecture. And thirdly, many neighbourhoods urgently need to be adapted to the changing demands and appreciation of public space, to climate change and to energy transition.

In this studio we will learn from the 1970’s as well as explore future scenarios for these neighbourhoods. The studio will focus on a national program for experimental housing production that ran from 1968 until 1980. This urbanism studio will focus on the urban design, the public space and the experimental housing typologies. The studio will run parallel with an architecture studio that will focus on housing typology, the relation to public space and the specific interior qualities of these houses.

Keywords: Scales; Neighbourhood, Ensembles, House; Themes; Heritage. Urban Transformation, Public Space, Housing; Competencies: Spatial Research, Urban Design, Outdoor Design, Typological Design.

Daryl Mulvihill, MA

7QW2M0
semester B, quartile 3-4
10 ects
10 students
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7WX1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
Combining Masterproject

Introduction
Combined masterproject

RA-UUA01  Antwerpen - Over de Ring
prof. Dipl.-Ing. Christian Rapp, prof. dr. ir. Pieter van Wesemael,
Dipl.-Ing. Haike Apelt, ir. Marcel Musch

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h.apelt@tue.nl, m.w.musch@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 (7QX1M0 or 7QX2M0) and a regular Urbanism masterproject (7QW1M0 or 7QW2M0) 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 (prof. Dipl.-Ing. Christian Rapp) and the chair of Urbanism and Urban Architecture (prof. dr. ir. Pieter van Wesemael), representing both disciplines within the Unit AUDE.

For details see: https://educationguide.tue.nl/programs/graduate-school/masters-programs/architecture-building-and-planning/curriculum/register-tracks/aude-for-architects-and-urbanists-register-combined/?L=2
The combined Masterproject Architecture and Urbanism is organized by the chair of Rational Architecture (prof. Christian Rapp) and the chair of Urbanism and Urban Architecture (prof. Pieter van Wesemael), representing both disciplines within the Unit AUDE. The studio is aimed at students who want to earn a double degree in Architecture and Urbanism. Only students who have already successfully finished a regular Masterproject in Architecture (7QX1M0 or 7QX2M0) and a regular Masterproject in Urbanism (7QW1M0 or 7QW2M0) may apply for the combined Masterproject. Please take the necessary steps in the selection procedure when applying for this project!

The project will be devoted to the typomorphological analysis of the city of Antwerp, focusing on a specific urban situation around which the actual debate about the future of the city is evolving: the Ring (section East). 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 interrelationship between societal, political and economic changes and the transformation of the city. The analysis will form the basis for individual design projects 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.

prof. dipl-ing. Christian Rapp
prof. dr. ir. Pieter van Wesemael
dipl.-ing. Haike Apelt
ir. Marcel Musch

7XW1M0
semester B, quartile 3-4
10 ects
10 students
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
AHT-UUA01  **Beyond ‘68**  
prof. dr. ir. Bernard Colenbrander, dr. dipl-İng. Hüsnü Yegenoglu, Sjef van Hoof  
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RA01  **Napoli - Viaggio in Italia II**  
Prof. Dipl-İng. Christian Rapp, Dipl-İng. Haike Apelt, ir. Wouter Hilhorst  
c.rapp@tue.nl, h.apelt@tue.nl, w.hilhorst@tue.nl

UUA-ADE01  **The Intermediate Size**  
prof. dr. ir. Pieter van Wesemael, ir. Jochem Groenland, dr. Dipl-İng. Hüsnü Yegenoglu, Sjef van Hoof arch. AvB  
p.j.v.wesemael@tue.nl, h.h.yegenoglu@tue.nl, j.groenland@tue.nl,  
j.j.p.m.v.hoof@bwk.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/graduation/

There are six chairs offering Graduation Studios. Most of them collaborate with other chairs in the Architecture and Urban Design (AUDE) unit. The names of people listed below are names of those tutors who can chair the various studios available:
- Architectural Design and Engineering (ADE) led by prof. ir. Juliette Bekkering and prof. ir. David Gianotten
- Architectural History and Theory (AHT) led by prof. dr. Bernard Colenbrander and associate professor dr. Jacob Voorthuis
- Rational Architecture (RA) led by prof. Dipl.-Ing. Christian Rapp
- Smart Architectural Technologies (SAT) led by prof. dr. ir. Masi Mohammadi
- Transformational Design (TD) led by prof. ir. Paul Diederer
- Urbanism and Urban Architecture (UUA) led by prof. dr. ir. Pieter van Wesemael

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

Enrolling in a graduation studio – quartile 3:

1. Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your graduation project is Sem B 2019-2020, quartile 4.

2. You have to subscribe with a first and second choice. This is possible until Sunday January 5, 2020.
3. The students are required to prepare a written motivation for their first and second choice of their studio and upload this motivation letter in Canvas before Monday January 6, 2020. First subscribe in Osiris, after that upload your motivation letter in Canvas. Use the correct course code (7X45M0). The motivation letter should be no longer than 1 A4 (.pdf file) and name this file as following: your last name - code studio 1st choice/code studio 2nd choice (for instance: Hemesath - ADE-UUA01/RA01). Mind you: without motivation letter you won't be assigned to a studio.

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

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

   https://educationguide.tue.nl/programs/graduate-school/masters-programs/architecture-building-and-planning/graduation/

   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!
Beyond ‘68

In the decades after 1968 the culture of architecture stopped following the functionalist trend, still dominated by modernist ideology, and adopted the relative liberties of Postmodernism. The freedom involved the shape and style of buildings, and also the restrictions of inherited typologies. Added to this, since the 1990s architecture’s dependency on specific political agendas loosened, while the digital revolution caused a certain disconnection from the physical reality of the body. Taking this layered reality as a starting point we start our studio with the following question: did the acceleration of cultural liberties cause an emancipation of the artistic and societal role of architecture? Our assumption until so far is that the answer to this question has to be negative. Whatever may have changed, architecture has remained being an applied art, serving the immediate needs of society. Nowadays architects are instruments and messengers in the hands of an increasing number of ‘stakeholders’, whose collaborative contribution defines something like the current program of society. These stakeholders do not follow the guidelines anymore that shaped the post war welfare state, resulting in the drastic transformation of many city centers and innumerable extension plans. Instead, so we assume, they propagate an alternative program, leaning on a new ‘holy trinity’: sustainability, safety and health.

In our studio we explore the influence of this holy trinity on the architectural system. Can architecture survive as a discipline with autonomous merits and qualities while serving the interests of being sustainable, safe and healthy? We are not sure, because these external influences appear to be very forceful. Therefore, we start this studio with relevant case studies, all related to the architectonic culture of the recent decades, in which the system of architecture is put under the heavy pressure of the current societal needs. Can architecture survive? This is our essential question - and we will explore it in depth, just as we will look for escape routes while designing.

prof. dr. Bernard Colenbrander
dr. dipl-ing. Hüsnü Yegenoglu
Sjef van Hoof arch. AvB

7X45M0
semester B, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
4 students (every quartile)
Napoli - Viaggio in Italia II

This 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 questions and conditions, characterizes this position. The studio will be devoted to the morphological and typological analysis of the city of Naples. 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, you 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)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 - free - individual design projects in the second semester. In order to implement the aspect of international experience (15 ects) a three month’ stay abroad (at the university of Naples) is compulsory. An exclusive Erasmus-agreement has been made to ensure you can receive a grant which supports you during your stay abroad. We will work in close collaboration with our partners in Naples, whom you will meet during our excursion in March and who will stay involved throughout the project.

Please note, the max. number of participants is 4; if more students apply, we will select by portfolio.

prof. dipl-ing. C. Rapp
dipl-ing. H. Apelt
ir. W. Hilhorst

Collaboration with prof. Federica Visconti
prof. Renato Capozzi, Chair of Architectural and Urban Design, Department of Architecture, Universita‘degli Studi di Napoli Federico II

7X45M0 + 7X15M0
semester B, starting possible in quartile 3 (3-4-1-2) (within this period: 1 quartile abroad) and quartile 4 (4-1-2-3) (within this period: 1 quartile abroad) 45 ects + 15 ects (incorporating international experience)
4 students
The Intermediate Size questions the relationship between architecture and urbanism. The studio is open for both architecture and urbanism students, who will collaborate in groups. Urbanism students will explore possibilities for new urban settlements and the transformation of the landscape, the architecture students develop architectural ensembles and new typologies used as the ‘smallest nucleus of urban planning’ (The Intermediate Size, 2006, p.56 ff.).

The studio Intermediate Size is a continuous studio that each edition explores and critically reexamines the city of Rotterdam, starting from a specific theme that could, potentially, develop into extremely divergent findings and design projects. This time the studio will focus on the Energy Transition, which aims to transform the present energy system that is based on fossil fuels into a system based on renewable energy sources.

However, energy transitions cannot be fully grasped without appreciating their spatial implications. Research on energy and energy transitions has been criticized for a long time for not being spatially sensitive. Yet, for some years now, there has been a ‘spatial turn’ in energy research. Energy transitions of the future will probably lead to the reconfiguration of spatial and architectural patterns of social, cultural, and economic developments and everyday practices. They will have material consequences for urban and industrial landscapes and will result in new design scenarios and spatial developments.

The aim of our graduation studio ‘The Imaginative Futurist’ is the inquiry and design of ‘futuristic’ architectural and urban transformation scenarios for Rotterdam’s port. We will specifically focus on the parts of the harbor which today are used in a mono-functional way like the fossil fuel storage areas. The primary challenge of the studio will be based on the hypothetical condition of if; if the energy transition will be realized step by step, what might the future architectural conditions be of Rotterdam’s harbor spaces which are currently only used for logistical and infrastructural purposes? Our hypothesis is that energy transformation will lead to unconventional design scenarios which might be at a second glance less futuristic or even utopic than one would expect.

Further information on the set-up and results of the Intermediate Size studios:
www.intermediatesize.com/studio

1. Umberto Boccioni
2. Gavin Bridge (2018)

ir. Jochem Groenland
dr. dipl-ing. Hüsnü Yegenoglu
Sjef van Hoof arch. AvB
Responsible professor prof. dr. ir. Pieter van Wesemael

7X45M0
semester B, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
4 students (every quartile)
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
7X45Mo, quartile 4
Graduation studios Architecture

Introduction
Graduation studios Architecture

AHT-ADE01  Beyond ‘68
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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/graduation/

There are six chairs offering Graduation Studios. Most of them collaborate with other chairs in the Architecture and Urban Design (AUDE) unit. The names of people listed below are names of those tutors who can chair the various studios available:
- Architectural Design and Engineering (ADE) led by prof. ir. Juliette Bekkering and prof. ir. David Gianotten
- Architectural History and Theory (AHT) led by prof. dr. Bernard Colenbrander and associate professor dr. Jacob Voorthuis
- Rational Architecture (RA) led by prof. Dipl.-Ing. Christian Rapp
- Smart Architectural Technologies (SAT) led by prof. dr. ir. Masi Mohammadi
- Transformational Design (TD) led by prof. ir. Paul Diederens
- Urbanism and Urban Architecture (UUA) led by prof. dr. ir. Pieter van Wesemael

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

Enrolling in a graduation studio – quartile 4:

1. Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your graduation project is Sem A 2020-2021, quartile 1.

2. You have to subscribe with a first and second choice. This is possible until Sunday March 22, 2020.
3. The students are required to prepare a written motivation for their first and second choice of their studio and upload this motivation letter in Canvas before Monday March 23, 2020. First subscribe in Osiris, after that upload your motivation letter in Canvas. Use the correct course code (7X45M0). The motivation letter should be no longer than 1 A4 (.pdf file) and name this file as following: your last name – code studio 1st choice/code studio 2nd choice (for instance: Hemesath – ADE-UUA01/RA01). Mind you: without motivation letter you won’t be assigned to a studio.

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

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

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!
In the decades after 1968 the culture of architecture stopped following the functionalist trend, still dominated by modernist ideology, and adopted the relative liberties of Postmodernism. The freedom involved the shape and style of buildings, and also the restrictions of inherited typologies. Added to this, since the 1990s architecture’s dependency on specific political agendas loosened, while the digital revolution caused a certain disconnection from the physical reality of the body. Taking this layered reality as a starting point we start our studio with the following question: did the acceleration of cultural liberties cause an emancipation of the artistic and societal role of architecture? Our assumption until so far is that the answer to this question has to be negative. Whatever may have changed, architecture has remained being an applied art, serving the immediate needs of society. Nowadays architects are instruments and messengers in the hands of an increasing number of ‘stakeholders’, whose collaborative contribution defines something like the current program of society. These stakeholders do not follow the guidelines anymore that shaped the post war welfare state, resulting in the drastic transformation of many city centers and innumerable extension plans. Instead, so we assume, they propagate an alternative program, leaning on a new ‘holy trinity’: sustainability, safety and health.

In our studio we explore the influence of this holy trinity on the architectural system. Can architecture survive as a discipline with autonomous merits and qualities while serving the interests of being sustainable, safe and healthy? We are not sure, because these external influences appear to be very forceful. Therefore, we start this studio with relevant case studies, all related to the architec tonic culture of the recent decades, in which the system of architecture is put under the heavy pressure of the current societal needs. Can architecture survive? This is our essential question - and we will explore it in depth, just as we will look for escape routes while designing.
Napoli - Viaggio in Italia II

This 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 questions and conditions, characterizes this position. The studio will be devoted to the morphological and typological analysis of the city of Naples. 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, you 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)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 - free - individual design projects in the second semester. In order to implement the aspect of international experience (15 ects) a three month' stay abroad (at the university of Naples) is compulsory. An exclusive Erasmus-agreement has been made to ensure you can receive a grant which supports you during your stay abroad. We will work in close collaboration with our partners in Naples, whom you will meet during our excursion in March and who will stay involved throughout the project.

Please note, the max. number of participants is 4; if more students apply, we will select by portfolio.

prof. dipl- ing. C. Rapp
dipl- ing. H. Apelt
ir. W. Hilhorst

Collaboration with prof. Federica Visconti
prof. Renato Capozzi, Chair of Architectural and Urban Design, Department of Architecture, Universita' degli Studi di Napoli Federico II

7X45M0 + 7X15M0
semester B, starting possible in quartile 3 (3-4-1-2) (within this period: 1 quartile abroad) and quartile 4 (4-1-2-3) (within this period: 1 quartile abroad) 45 ects + 15 ects (incorporating international experience)
4 students
The Intermediate Size questions the relationship between architecture and urbanism. The studio is open for both architecture and urbanism students, who will collaborate in groups. Urbanism students will explore possibilities for new urban settlements and the transformation of the landscape, the architecture students develop architectural ensembles and new typologies used as the ‘smallest nucleus of urban planning’ (The Intermediate Size, 2006, p.56 ff.).

The studio Intermediate Size is a continuous studio that each edition explores and critically reexamines the city of Rotterdam, starting from a specific theme that could, potentially, develop into extremely divergent findings and design projects. This time the studio will focus on the Energy Transition, which aims to transform the present energy system that is based on fossil fuels into a system based on renewable energy sources.

However, energy transitions cannot be fully grasped without appreciating their spatial implications. Research on energy and energy transitions has been criticized for a long time for not being spatially sensitive. Yet, for some years now, there has been a ‘spatial turn’ in energy research. Energy transitions of the future will probably lead to the reconfiguration of spatial and architectural patterns of social, cultural, and economic developments and everyday practices. They will have material consequences for urban and industrial landscapes and will result in new design scenarios and spatial developments.

The aim of our graduation studio ‘The Imaginative Futurist’ is the inquiry and design of ‘futuristic’ architectural and urban transformation scenarios for Rotterdam’s port. We will specifically focus on the parts of the harbor which today are used in a mono-functional way like the fossil fuel storage areas. The primary challenge of the studio will be based on the hypothetical condition of if; if the energy transition will be realized step by step, what might the future architectural conditions be of Rotterdam’s harbor spaces which are currently only used for logistical and infrastructural purposes? Our hypothesis is that energy transformation will lead to unconventional design scenarios which might be at a second glance less futuristic or even utopic than one would expect.

Further information on the set-up and results of the Intermediate Size studios: www.intermediatesize.com/studio

1. Umberto Boccioni
2. Gavin Bridge (2018)

ir. Jochem Groenland
dr. dipl-ing. Hüsnü Yegenoglu
Sjef van Hoof arch. AvB
Responsible professor prof. dr. ir. Pieter van Wesemael

7X45M0
semester B, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
4 students (every quartile)
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
7W45Mo, quartile 3
Graduation studios Urbanism

Introduction
Graduation studios Urbanism

UUA01  Densifying Dutch Cities
Amsterdam, The Hague, Rotterdam and Utrecht
prof. dr. ir. Pieter van Wesemael, ir. Marcel Musch, dr. ir. Dena Kasraian
p.j.v.v.wesemael@tue.nl, m.w.musch@tue.nl, d.kasraian@tue.nl

UUA-ADE01  The Intermediate Size
prof. dr. ir. Pieter van Wesemael, ir. Jochem Groenland,
dr. Dipl.-Ing. Hüsnü Yegenoglu, Sjef van Hoof arch. AvB
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h.h.yegenoglu@tue.nl, j.v.hoof@bwk.tue.nl
Introduction
Graduation studios Urbanism

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/graduation/

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

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

Enrolling in a graduation studio – quartile 3:

1. Students eligible for entering the graduation phase need to enroll in Osiris before the closing of the registration term. If you register too late the first possibility to start with your graduation project is Sem B2019-2019, quartile 3.

2. You have to subscribe with a first and second choice. This is possible until Sunday January 5, 2020.

3. During the first week of the new quartile students are invited by their tutors to visit the graduation studio of their first or (if that particular studio has been oversubscribed) their second choice. Students are required to present their grade list (fully up to date) to the Supervisory Committee.
4. For the requirements to start we would like to refer to the Graduation Guide AUDE which may be found at the AUDE website: https://educationguide.tue.nl/programs/graduate-school/masters-programs/architecture-building-and-planning/graduation/

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

Looking forward to meeting you in our graduation studios!
Densifying Dutch Cities
Amsterdam, The Hague, Rotterdam and Utrecht

Dutch cities in the western part of the country (or: the ‘Randstad’) are becoming increasingly popular. It is estimated that the populations of the four big cities in the Randstad will grow by up to 10% in the next 10-15 years. Many new housing developments are being planned for the next decade. National and local planning policies aim to develop these new locations within the existing city to preserve the remaining valuable open, green space around the cities. Building within the city fits the growing popularity of the city and contemporary urban lifestyles. Also, densifying cities is seen as a precondition for sustainable development as it creates opportunities to decrease car mobility and stimulate cycling, walking and the use of public transport. Furthermore, high density is an opportunity to integrate and develop smart urban systems (circularity, energy, water) and to increase the economic basis for amenities.

Of course, these advantages do not come naturally. Dense cities can have many drawbacks: cluttered roads, poor living conditions, overcrowded public spaces and overstretched urban services. Careful planning and urban design are paramount in overcoming these disadvantages by integrating urban systems, public space and housing typologies. However, urban planning often takes place in separate sectors whereas design research is often limited to the physical aspects of density neglecting other aspects.

In this graduation studio we will critically review the methods and practices of contemporary urban research and planning with respect to densifying cities. The studio will focus on the plans of four big Dutch cities and will compare their strategies to international examples. In this studio we will start with structured group research to explore four main topics: density, mobility, housing typology and public domain. The group research is followed by an individual research and design.

A comparative study with European cities and an international excursion and international academic workshop in Bangkok (optional) will be part of the studio.

Keywords: Scales: House, Neighbourhood, Ensemble, City; Themes: Urban Transformation, Public Space, Housing, Mobility, Health; Competencies: Social-Cultural Research, Spatial Research, Strategy & Scenario Design, Urban Design, Regional Planning, Typological Design

ir. Marcel Musch
dr. ir. Dena Karaian
Responsible professor: prof. dr. ir. Pieter van Wesemael

7W45M0
semester B, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
10 students (every quartile)
The Intermediate Size questions the relationship between architecture and urbanism. The studio is open for both architecture and urbanism students, who will collaborate in groups. Urbanism students will explore possibilities for new urban settlements and the transformation of the landscape, the architecture students develop architectural ensembles and new typologies used as the ‘smallest nucleus of urban planning’ (The Intermediate Size, 2006, p.56 ff.).

The studio Intermediate Size is a continuous studio that each edition explores and critically reexamines the city of Rotterdam, starting from a specific theme that could, potentially, develop into extremely divergent findings and design projects. This time the studio will focus on the Energy Transition, which aims to transform the present energy system that is based on fossil fuels into a system based on renewable energy sources.

However, energy transitions cannot be fully grasped without appreciating their spatial implications. Research on energy and energy transitions has been criticized for a long time for not being spatially sensitive. Yet, for some years now, there has been a ‘spatial turn’ in energy research. Energy transitions of the future will probably lead to the reconfiguration of spatial and architectural patterns of social, cultural, and economic developments and everyday practices. They will have material consequences for urban and industrial landscapes and will result in new design scenarios and spatial developments.

The aim of our graduation studio ‘The Imaginative Futurist’ is the inquiry and design of ‘futuristic’ architectural and urban transformation scenarios for Rotterdam’s port. We will specifically focus on the parts of the harbor which today are used in a mono-functional way like the fossil fuel storage areas. The primary challenge of the studio will be based on the hypothetical condition of if; if the energy transition will be realized step by step, what might the future architectural conditions be of Rotterdam’s harbor spaces which are currently only used for logistical and infrastructural purposes? Our hypothesis is that energy transformation will lead to unconventional design scenarios which might be at a second glance less futuristic or even utopic than one would expect.

Further information on the set-up and results of the Intermediate Size studios: www.intermediatesize.com/studio

1. Umberto Boccion
2. Gavin Bridge (2018)

ir. Jochem Groenland
dr. dipl-ing. Hüsnü Yegenoglu
Sjef van Hoof arch. AvB
Responsible professor prof. dr. ir. Pieter van Wesemael

7X45M0
semester B, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
4 students (every quartile)
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
7W45Mo, quartile 4
Graduation studios Urbanism

Introduction
Graduation studios Urbanism

UU Ao1  Densifying Dutch Cities
Amsterdam, The Hague, Rotterdam and Utrecht
prof. dr. ir. Pieter van Wesemael, ir. Marcel Musch, dr. ir. Dena Kasraian
p.j.v.v.wesemael@tue.nl, m.w.musch@tue.nl, d.kasraian@tue.nl

UU A-DEo1  The Intermediate Size
prof. dr. ir. Pieter van Wesemael, ir. Jochem Groenland,
dr. Dipl.-Ing. Hüsnü Yegenoglu, Sjef van Hoof arch. AvB
p.j.v.v.wesemael@tue.nl, j.groenland@tue.nl,
h.h.yegenoglu@tue.nl, j.v.hoof@bwk.tue.nl
Introduction
Graduation studios Urbanism

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

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Enrolling in a graduation studio – quartile 4:

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ir. Marcel Musch
dr. ir. Dena Karaian
Responsible professor: prof. dr. ir. Pieter van Wesemael

7W45M0
semester B, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
10 students (every quartile)
The Intermediate Size

The Intermediate Size questions the relationship between architecture and urbanism. The studio is open for both architecture and urbanism students, who will collaborate in groups. Urbanism students will explore possibilities for new urban settlements and the transformation of the landscape, the architecture students develop architectural ensembles and new typologies used as the ‘smallest nucleus of urban planning’ (The Intermediate Size, 2006, p.56 f.).

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However, energy transitions cannot be fully grasped without appreciating their spatial implications. Research on energy and energy transitions has been criticized for a long time for not being spatially sensitive. Yet, for some years now, there has been a ‘spatial turn’ in energy research. Energy transitions of the future will probably lead to the reconfiguration of spatial and architectural patterns of social, cultural, and economic developments and everyday practices. They will have material consequences for urban and industrial landscapes and will result in new design scenarios and spatial developments.

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Further information on the set-up and results of the Intermediate Size studios: www.intermediatesize.com/studio

1. Umberto Boccioni
2. Gavin Bridge (2018)

ir. Jochem Groenland
dr. dipl-ing. Hüsnü Yegenoglu
Sjef van Hoof arch. AvB

Responsible professor prof. dr. ir. Pieter van Wesemael

7X45M0
semester b, starting possible in quartile 3 (3-4-1-2) and quartile 4 (4-1-2-3)
45 ects
4 students (every quartile)
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
7X6oMo, quartile 3
Graduation studio Architecture and Urbanism

RA-UUA01
Antwerpen - Sprong over Ring en Rivier
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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 (7QX1M0 or 7QX2M0) and a regular Masterproject in Urbanism (7QW1M0 or 7QW2M0) and a combined Masterproject in Architecture and Urbanism (7XW1M0) may apply for the combined Graduation studio.

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

The studio aims at developing an understanding of the critical relationship between the urban condition and the architectural project. In the first semester, the students will study the morphological genesis and transformation of the city and related building types. The typo-morphological research will be combined with a literature study in order to explain the interrelationship between societal, political and economic changes and the (trans)formation of the city. This collective effort will result in a so called ‘atlas’, which consists of essays and analytical drawings and which will form the basis for the individual research and design projects in the second semester.
7QX5Mo, quartile 3
Seminars Architecture and Urbanism

7QX5Mo, quartile 4
Seminars Architecture and Urbanism

7QX2Mo, quartile 3-4
Masterprojects Architecture

7QW2Mo, quartile 3-4
Masterprojects Urbanism

7XW1Mo, quartile 3-4
Combined Masterproject

7X45Mo, quartile 3
Graduation studios Architecture

7X45Mo, quartile 4
Graduation studios Architecture

7W45Mo, quartile 3
Graduation studios Urbanism

7W45Mo, quartile 4
Graduation studios Urbanism

7X60Mo, quartile 3
Graduation studio Architecture and Urbanism

7QQ5Mo
International Academic Workshops
7QQ5Mo
International Academic Workshops

RA01 Springacademy Ruhr 2020 ‘Conversion’
c.rapp@tue.nl, h.apelt@tue.nl, a.peters@tue.nl

UUA Hizen-hamashuku, Saga, Japan
Asian-European Design Labs
ir. Jochem Groenland
j.groenland@tue.nl
The chair of Rational Architecture is participating for the 7th time in the Springacademy Ruhr which is being organized by the TU Dortmund. Participating also will be students from the universities of Potsdam, Naples and Dortmund. The Springacademy will involve participation in an international design workshop in Dortmund, together with some preparatory work during the pre- and postproduction (a brief case study before, and the preparation of an exhibition in Eindhoven after the workshop). Parallel to the workshop, lectures and excursions will be organized. During the workshop you will work together in small mixed groups, thereby getting acquainted with a different cultural and academic background of your peers. Supervised by teaching staff from the different universities, the workshop involves the development of skills regarding communication and collaboration, the exploration of different design methods, and most importantly, significant aspects of international experience which will broaden your horizon and may provide useful contacts for your future career. This year’s subject is ‘Conversion’. We will study an industrial area close to the city centre of Dortmund, an inaccessible space in the memory of the city, a kind of terra incognita, which will be transformed in the near future.

Please note, places are limited to max. 15 students. The spring academy takes place on 24 February until 4 March (the Carnival holiday!).

prof. dipl.-ing. Christian Rapp
dipl.-ing. Haike Apelt
ir. Anne Marie Peters

Collaboration with:
prof. Olaf Schmidt/prof. Michael Schwarz (Technical University of Dortmund)
prof. Silvia Malcovati (University of Applied Science Potsdam)
prof. Federica Visconti/prof. Renato Capozzi (Universitàdegli Studi di Napoli Federico II)

7QQ5M0
semester B, quartile 3
workshop in Dortmund, Germany: February 24 – March 4, 2020
5 ects
max. 15 participants; if more students apply, selection will be done based on portfolio
This International Workshop is part of the Asian-European Design Lab network. The chairs of Rational Architecture (RA) and Urbanism and Urban Architecture (UUA) have participated in previous editions in Chungju, South Korea (2017), Eindhoven (2018) and Hizen Hama Shuku, Japan (2018 and 2019), Chiang Mai (2019) and Bangkok (2019). In these international workshops we work with international students and lecturers from the participating universities: Korean National University of Transportation (KNUT, South Korea), Thamassat University (Thailand), Chiang Mai University (Thailand), Vienna University (Austria) and KazGASA, Kazakhstan).

The theme of this workshop is Urban Revitalization and Heritage. The workshop will focus on the revitalization and renovation of a traditional area in the south of Japan.

Participation in the workshop will involve some preparatory work in quartile 4 and the production of a report in the form of book and/or an exhibition. During the workshop you will work together in internationally mixed groups, getting acquainted with the diverse cultural and academic background of your peers. You will be supervised by an international staff from the participating universities.

Please note: the workshop will take place in the summer period. Registration for this workshop is a pre-registration. Additional selection criteria, as defined by the organizers of the workshop, may apply.

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Keywords: Scales: Center, Neighbourhood, Ensemble; Themes: Mobility, Urban Transformation. Public Space, Housing, Work Spaces, Inclusive Development; Competencies: Social-Cultural Research, Spatial Research, Urban Design, Typological Design, Architectural Design

ir. Jochem Groenland

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semester B, quartile 4
workshop: July 16 - 26, 2020 (preliminary dates)
5 ects
10 students
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