Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences
Submit your Graduation Plan to the Board of Examiners (Examencommissie-BK@tudelft.nl), Mentors and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

<table>
<thead>
<tr>
<th>Personal information</th>
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<tbody>
<tr>
<td>Name</td>
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<tr>
<td>Student number</td>
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<tr>
<td>Telephone number</td>
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<tr>
<td>Private e-mail address</td>
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<table>
<thead>
<tr>
<th>Studio</th>
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<tbody>
<tr>
<td>Name / Theme</td>
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</table>
| Teachers / tutors | Lidy Meijers (design)  
|                   | Frank Koopman (building technology)  
<p>|                   | Peter de Jong (delegate) |
| Argumentation of choice of the studio | I have always been fascinated by the history of old buildings. These places tell a story, some more obvious than others. A lot of these buildings are left vacant and sometimes nature takes over and adds a new layer of time. These old buildings most always have potential. Besides using this potential and revitalizing the building I would like to integrate in the design my personal fascination for sustainability and circularity. Dealing with heritage and designing with the existing built environment creates opportunities to incorporate these elements. In my graduation project, I intend to find a harmonious and valuable dialogue, a balance, between different layers of history and the layer I will add. |</p>
<table>
<thead>
<tr>
<th><strong>Graduation project</strong></th>
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<tr>
<td><strong>Title of the graduation project</strong></td>
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<table>
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<tr>
<th><strong>Goal</strong></th>
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<tr>
<td><strong>Location:</strong></td>
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<td><strong>The posed problem,</strong></td>
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<table>
<thead>
<tr>
<th><strong>research questions and Main research question:</strong></th>
<th>“How to deal with the coherence between social inclusiveness and the Changing zone?”</th>
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<tbody>
<tr>
<td><strong>research questions</strong></td>
<td>With different sub questions:</td>
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<tr>
<td><strong>1.</strong></td>
<td>How to transform the buildings originally designed for the production of cartridges into a suitable, parceled living environment for people with a physical care demand?</td>
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<tr>
<td><strong>2.</strong></td>
<td>What are the dimensions and specific design issues when dealing with people with a physical care demand?</td>
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<tr>
<td><strong>3.</strong></td>
<td>How to deal with the coherence in the ensemble? (original connections, open vs. private)</td>
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<td><strong>4.</strong></td>
<td>How can the past be an inspirational tool for the future? (How can de old influence the new?, what to keep and what to demolish? In what way can the characteristic atmosphere of the ensemble be conserved?)</td>
</tr>
<tr>
<td><strong>5.</strong></td>
<td>How to deal with sustainability in the new design? How to design in a way to make the ensemble future proof?</td>
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</table>
By choosing a target group and an ensemble on the Hembrug terrain (part of) the terrain will be revitalized. Hereby the focus will be on how temporary and future demands can be translated into appropriate interventions, and in the same time maintain the identity and characteristics of the ensemble.

To start off with the given site the Hembrug terrain, the main focus is to keep the characteristic elements and demolish or adjust the less characteristic elements with the lowest value. Within the given site of Hembrug a choice is made for an ensemble, “The Changing zone”. From this a design assignment emerged; redesigning the Changing zone into a social inclusive community center for elderly people with a physical care demand. The challenge hereby lies in making the ensemble inclusive. This resulted in three different pillars of starting points: starting points specially focused on the function and the target group, starting points in relation to the taken heritage position and starting points from my personal drive (a more clear overview is shown at the bottom of this page).

After defining and integrating these starting points, this led to my concept: Huize Hembrug: a community center for elderly with a physical care demand. This again will have its influence the given terrain and the chosen ensemble. New questions will arise of how to deal with the characteristics of the Hembrug terrain as well as the ensemble itself (see scheme below). It will also lead to a program of recommendations for the given Hembrug area and a program of requirements for the ensemble itself.
There are three main inputs for the design. First, the site analysis divided in the cultural value assessment, the technical and the architectural analysis. Second, my personal fascination regarding sustainability and circularity. Thirdly the actuality, the growing elderly population. Not only is the population of elderly growing and it will keep on growing in the future, but the people also tend to get older.

Research is done by different media:
1. Location analysis: field trips to the Hembrug terrain and desk research on cultural value, technology and architecture.
2. Precedent studies: field trips to different redevelopment areas (KNSM island, Willemsoord, Dordrecht, Utrecht, Eindhoven, Amsterdam, Leiden etc.) that have already been executed.
3. Case studies: desk research looking into different types of elderly homes, some of which will be visited.
4. Literature: collecting data, regulations, and specifying target group.

The design will be based on the different aspects above, and will be further explored by sketching, model making and more precise computer drawings.
Literature and general practical preference

Literature:

Other:
- CBS
- Prijsvraag atelier Rijksbouwmeester: who cares?
- Newspaper articles (nos, nrc)
- Manifest: Geef ouderen hun stem terug

Precedence:
- Stadsboederij, duurzaamheidscentrum en speeltuin Dordrecht
- Villa Augustus, Dordrecht
- Energiehuis, Dordrecht
- Rijksmuseum, Amsterdam
- Atlas TUe, Eindhoven
- Strijp-S, Eindhoven
- University of Leiden: Geesteswetenschappen, Leiden

Case studies:
- Humantias, Rotterdam
- Eendracht, Rotterdam
- Treebeek, Brunsum
- De Bouwmeester, Utrecht
The graduation project will give an answer to the social question of finding an appropriate way to house the elderly society. The elderly population growing and the people tend to get older. The elderly of today are not the same as the elderly of the past and they want to take part in society as long as possible. Due to the recent changes in the welfare state: the separation between care and housing new questions arise about how to design and create new housing for the elderly. Designing for this specific group of people, will result in a design that is inclusive for more target groups (like disabled people, children, etc.), in order to generate the full potential of the design. The entire Hembrug terrain and creating an all-inclusive area will also be called upon. This will increase social value and sustainability even further.

On the other hand a lot of the existing buildings are left vacant or do not meet the current requirements to function to its full extent. This means finding an appropriate solution to give these buildings their purpose back.

Designing homes for elderly inside a vacant building complex can solve two relevant topics. The identity of these old buildings can provide support for the elderly. The atmosphere of the ensemble can work therapeutically. In this way both the buildings and their inhabitant elderly people can have a beautiful, extended life.

The question of housing this growing group of elderly people is extensive. The strategy and design that will be developed in this graduation project will be a framework for future inclusive elderly homes and inclusive elderly communities.
Time planning

GRADUATION SCHEDULE

MSc3 (Q1)

September
36 37 38 39 40 41 42 43 44 45
1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10

General
- Reading (literature)
- Drawing
- Project journal

Excursions
- Hembrug excursion
- Other excursion
- Excursion guide

Research
- Choice of ensemble
- Lectures
- Archive
- Model making
- Deadline research report (v2)

Presentations
- Preparation
- Reflection

MSc3 (Q2)

December
46 47 48 49 50 51 52
2.1 2.2 2.3 2.4 2.5 2.6

January

Feb

2.7 2.8 2.9 2.10

General
- Reading (literature)
- Drawing
- Project journal

Excursions
- Hembrug excursion
- Other excursion

Research
- Lectures
- Deadline functional proposal
- Target group
- Case studies
- Deadline research report (v2)

Design
- Sketching
- Digital drawings
- Model

Presentations
- Preparation
- Reflection
MSc4 (Q3)

February
6 - 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.10
General
* Reading (literature)
* Drawing
* Project journal

Excursions
* Hembrug excursion
* Other excursion

Research
* Lectures
* Case studies
* By design

Design
* Sketching
* Digital drawings
* Model

Presentations
* Preparation
* Reflection

April
14 15 16
P3

MSc4 (Q4)

May
17 18 19 20 21 22 23 24 25 26 27
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11
General
* Reading (literature)
* Drawing
* Project journal

Excursions
* Hembrug excursion
* Other excursion

Research
* By design

Design
* Sketching
* Digital drawings
* Model

Presentations
* Preparation
* Reflection

June
P4

July
P5
Current situation

Proposal: ‘Huize Hembrug’
Community centre for elderly with a physical care demand