

Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences

Kilian Antoon Frans Mol (4290097)



Personal information	
Name	Kilian Antoon Frans Mol
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Studio	
Name / Theme	Heritage & Architecture - Revitalising Heritage
Teachers / tutors	<p>Tutors (main) Architecture: Lidy Meijers & Annette Marx</p> <p>Tutors Building Technology: Frank Koopman & Ger Warries</p> <p>Tutor Cultural Value: Charlotte van Emstede</p>
Argumentation of choice of the studio	I chose the Heritage & Architecture - Revitalising Heritage studio, because this graduation project challenges me to deal with an existing built environment with a valuable history that should get a new function for future use. I think this is an important exercise for me, as it is becoming increasingly common for architects to preserve and convert heritage. I am convinced that this project will give me a better understanding of how heritage can be adapted to changing needs without losing historical and cultural values.

Graduation project	
Title of the graduation project	Hembrug Peninsula – Revitalising Heritage
Goal	
Location:	Hembrug, Havenbuurt, Zaandam, NL
The posed problem,	Hembrug used to be a military production site as part of the Stelling van Amsterdam (Dutch defence strategy) since 1895, but lost its original function in 2003 when the Eurometaal factory stopped the ammunition production. Since then the site has been abandoned and has become available for new users. In order to make the site suitable for these new users, adjustments will have to be made without losing the military production background.

research questions and	<p>General Research Questions: What is the tolerance for change of this cultural historical site of Hembrug? What is the meaning of an ensemble of buildings in the context and planned urban development?</p> <p>Personal Research Question: How can the former military production site Hembrug be transformed into a contemporary mixed work and living environment and become an inspiring place for designers and starting entrepreneurs?</p>
design assignment in which these result.	Transforming the existing built heritage on Hembrug into a sustainable mixed work and living environment. Creating a place that suits co-working and inspires people in a place where the valuable military history must remain perceptible.

Process

Method description

To fulfil this design assignment, I will first have to delve into the heritage site Hembrug by analyzing the location from multiple perspectives, of which architectural design, building technology and cultural value will be the three distinguishable main themes. This analysis will be performed in groups and will be conducted according to the conservation and conversion methodology of Marieke Kuipers and Wessel de Jonge explained in their book *Designing from Heritage – Strategies for Conservation and Conversion*¹. Kuipers and de Jonge have defined four steps that should help architecture students in analyzing heritage: first students have to compile the building history of a heritage site (jointly), secondly the site-specific heritage features have to be identified and classified (jointly), thirdly the identified features need to be differentiated on three levels of significance (individually), and finally opportunities for possible interventions and crucial dilemmas for the continuation of the heritage site have to be identified based on the outcomes of the first three steps (individually). These four steps should result in a well-grounded cultural value assessment, which should help students to substantiate their intended interventions in built heritage. From this analysis students will formulate conclusions that will shape their starting points for the design phase that follows. Within this design phase students will individually formulate a new program and a strategy for making adaptations to the heritage site to suit the changing needs of a potential future scenario. At the end of the first semester the intended design will be presented (P2), after which the

¹ Marieke Kuipers & Wessel de Jonge, (2017) *Designing from Heritage – Strategies for Conservation and Conversion* (Delft: TU Delft - Heritage & Architecture)

students will reflect on the feedback they will receive after this presentation and on their design process so far. By reflecting students will determine the issues that require more research and need further elaboration during the second semester. During this second semester, students will continue the design process with a clear research focus and will go more into detail towards the final design. Eventually at the end of the second semester the final design will be presented (P4 & P5).

Literature and general practical preference

Architectural Research Methods

- Groat, L. & Wang, D. (2013). *Architectural Research Methods*, Hoboken, New Jersey: John Wiley & Sons, Inc.
- Lucas, R. (2016). *Research Methods for Architecture*, London: Laurence King Publishing Ltd.

Heritage

- English Heritage. (2008). *Conservation Principles Policies and Guidance for the Sustainable Management of the Historic Environment*. London: English Heritage.
- Kuipers, M. & de Jonge, W. (2017). *Designing from Heritage – Strategies for Conservation and Conversion*. Delft: TU Delft - Heritage & Architecture.
- Mason, R. (2002). *Assessing Values in Conservation Planning: Methodological Issues and Choices*. In M. de la Torre, *Assessing the Values of Cultural Heritage*, Los Angeles: The Getty Conservation Institute.
- Meurs, P. (2016). *Heritage-based design*. Delft: TU Delft - Heritage & Architecture.
- Petzet, M. & Heilmeyer, F. (2012). *Reduce Reuse Recycle*. Ostfildern: Hatje Cantz.
- De la Torre, M. (2002). *Assessing the Values of Cultural Heritage*. Los Angeles: The Getty Conservation Institute

Other

- Goldstein, E. B. (2010). *Sensation and Perception*. Belmont: Wadsworth, Cengage Learning.
- Pallasmaa, J. (2005). *The Eyes of the Skin: Architecture and the Senses*. Chichester: John Wiley & Sons Ltd
- Pallasmaa, J. (2014). *Foreword - Domicile in Words The Scriptive Approach to Architecture*. In Havik, K. (2014). *Urban Literacy - Reading and Writing Architecture*. Rotterdam: nai010 publishers.

Reflection

Relevance

Sustainability is a theme that is increasingly becoming more important, not only in the field of architecture, but also in other fields. That is one of the main reasons why existing buildings are being reused more often over the last years instead of being replaced by new ones. Besides this, the appreciation of heritage and buildings that are designated as heritage have also increased enormously in recent decades. Therefore, the question of how to deal with built heritage has become more

important. This graduation project can be seen as an example of the complicated heritage assignments that occur in present day architectural practice. The former military production site Hembrug is a special location that holds a significant background that is part of the history of the Dutch Army. However, the area fell into disrepair after the military production disappeared. To prevent further decay, it is necessary to make use of the area again in order to preserve the heritage and the physical evidence of this valuable background. This project is, therefore, a valuable exercise in detecting and assigning the essential qualities of heritage buildings in their present state and devising interventions so the heritage can meet changes in contemporary and future demand.

Time planning

Q3 research; Design – Technology - Cultural Value

Week 3.1 (11.02.2019 – 17.02.2019)

- Welcome + short intro by main mentors
- Start study of masterplans: Strijp-S and Céramique, in groups
- Introduction studio of students + tutors
- Introduction to Research Methods
- Excursion to Hembrug

Week 3.2 (18.02.2019 – 24.02.2019)

- Research on 2 significant urban masterplans (realised): Strijp-S and Céramique, in groups
- Research Methods Lecture Talk 1
- Hand in draft 'excursion guide'/booklet

Week 3.3 (25.02.2019 – 03.03.2019)

- Excursion organised by the group: to the 2 sites of urban masterplans: Strijp-S and Céramique
- Joint session Critical reading and analysis
- Cultural Value workshop
- Research Methods Lecture Talk 2
- Hand in collective research ('excursion guide') booklet on 2 iconic urban masterplans: Strijp-S and Céramique
- Excursion to Hembrug and visit to the buildings on the site
- Choice of the building/ensemble

Week 3.4 (04.03.2019 – 10.03.2019)

- Tutoring/instruction on architecture H&D-analysis
- Research Methods Lecture Talk 3
- Work on group analysis

Week 3.5 (11.03.2019 – 17.03.2019)

- H&D-analysis
- Instruction on doing archival research
- Archive-day! (12.03.2019)
- Research Methods Lecture Talk 4
- Work on group analysis

Week 3.6 (18.03.2019 – 24.03.2019)

- Tutoring on technology
- Tutoring on cultural value
- Lecture Frits Palmboom
- Research Methods Lecture Talk 5
- MSc1+MSc3-excursion - lectures at Hembrug
- Work on group analysis

Week 3.7 (25.03.2019 – 31.03.2019)

- Tutoring on collective research + individual synthesis, brief, ideas etc.
- Research Methods Lecture Talk 6
- Work on group analysis

Week 3.8 (01.04.2019 – 07.04.2019)

- Hand in draft reports
- Work on Research Methods thesis
- Work on group analysis

Week 3.9 (08.04.2019 – 14.04.2019)

- **P1 presentation** (09.04.2019)
- feedback reports

Week 3.10 (15.04.2019 – 21.04.2019)

- Hand in final reports – review time

Q4 Design (defining individual design proposal)**Week 4.1 (22.04.2019 – 28.04.2019)**

- Easter (no tutoring)
- Work on Research Methods thesis
- Reflect on P1 presentation and determine the starting points for the design

Week 4.2 (29.04.2019 – 05.05.2019)

- Program workshop,
- Group work on scenario's
- Presentation workshop
- Work on Research Methods thesis
- Work on program

Week 4.3 (06.05.2019 – 12.05.2019)

- Workshop scenario's, individual
- Work on Research Methods thesis
- Work on program

Week 4.4 (13.05.2019 – 19.05.2019)

- Work on Research Methods thesis
- Work on program and design

Week 4.5 (20.05.2019 – 26.05.2019)

- Tutoring – extra on technology
- Research Methods Submission Final Assignment (23.05.2019)
- Work on program and design

Week 4.6 (27.05.2019 – 02.06.2019)

- Tutoring – extra on cultural value
- Work on program and design
- Prepare P2 presentation

Week 4.7 (03.06.2019 – 09.06.2019)

- Work on program and design
- Prepare P2 presentation

Week 4.8 (10.06.2019 – 16.06.2019)

- **P2 presentation** (11.06.2019)
- Attend to P2 presentations of others

Week 4.9 (17.06.2019 – 23.06.2019)

- Reflect on P2 presentation and determine the issues that require more research
- Attend to P2 presentations of others

Week 4.10 (24.06.2019 – 30.06.2019)

- Retakes

Week 4.11 (01.07.2019 – 06.07.2019)

- Retakes

Summer Holiday**Q1 Individual design (elaboration)****Week 1.1 (02.09.2019 – 08.09.2019)**

- Excursion
- Workshop fragments
- Elaborating the design

Week 1.2 (09.09.2019 – 15.09.2019)

- Workshop fragments – models – sketching
- Elaborating the design

Week 1.3 (16.09.2019 – 22.09.2019)

- Presentation state of affairs – design questions
- Elaborating the design

Week 1.4 (23.09.2019 – 29.09.2019)

- Elaborating the design

Week 1.5 (30.09.2019 – 06.10.2019)

- Consult Cultural value
- Elaborating the design

Week 1.6 (07.10.2019 – 13.10.2019)

- Elaborating the design
- Prepare P3 presentation

Week 1.7 (14.10.2019 – 20.10.2019)

- Elaborating the design
- Prepare P3 presentation

Week 1.8 (21.10.2019 – 27.10.2019)

- **P3 presentation** (24.10.2019) with visiting critics

Week 1.9 (28.10.2019 – 03.11.2019)

- Reflect on P3 presentation and determine the issues that require more research to finalise the design

Week 1.10 (04.11.2019 – 10.11.2019)

- No tutoring
- Reflect on P3 presentation and determine the issues that require more research to finalise the design

Q2 Individual design**Week 2.1 (11.11.2019 – 17.11.2019)**

- Finalizing the design
- Work on the design and research report

Week 2.2 (18.11.2019 – 24.11.2019)

- Finalizing the design
- Work on the design and research report
- Tutoring (Consult cultural value)

Week 2.3 (25.11.2019 – 01.12.2019)

- Finalizing the design
- Work on the design and research report
- Prepare P4 presentation

Week 2.4 (02.12.2019 – 08.12.2019)

- Prepare P4 presentation
- **P4 presentations**
- Work on reflection

Week 2.5 (09.12.2019 – 15.12.2019)

- Prepare P4 presentation
- **P4 presentations**
- Work on reflection

Week 2.6 (16.12.2019 – 22.12.2019)

- No tutoring
- Reflect on P4 presentation
- Work on reflection
- Organize P5 presentation

Christmas holiday**Week 2.7 (06.01.2020 – 12.01.2020)**

- Prepare P5 presentation
- Finalize Design and research report

Week 2.8 (13.01.2020 – 19.01.2020)

- Prepare P5 presentation
- Finalize Design and research report

Week 2.9 (20.01.2020 – 26.01.2020)

- Prepare P5 presentation
- Finalize Design and research report

Week 2.10 (27.01.2020 – 02.02.2020)

- **P5 presentations**