Course PM ACEX35 – Master’s thesis, Autumn semester 2018
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Chalmers School of Architecture,
DEPARTMENT OF ARCHITECTURE & CIVIL ENGINEERING,
CHALMERS UNIVERSITY
Course PM ACEX35, Master’s thesis, Autumn semester, 2018

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Autumn semester, 2018
Course leader: Maja Kovács, maja.Kovács@chalmers.se
Curator Exhibition: Naima Callenberg, naima@chalmers.se

1. Aim and learning objectives

The aim of the thesis is for the student to develop in-depth knowledge, understanding, ability and approaches within the parameters of the education. The thesis shall be produced at the end of the education and lead to a deepening and synthesis of previously acquired knowledge. The thesis shall emphasise the technical, scientific and artistic content of the Master of Science in Engineering, Architecture or Master of Science programmes. The overall aim of the thesis is for the student to demonstrate the knowledge and ability required for autonomous work as Master of Science in Engineering, Architect, Master of Science.

The learning objectives for the Master’s thesis are based on the objectives for the degree of Master of Engineering, Architecture and other Master’s of Science programmes contained in the national Qualifications Ordinance and in Chalmers local Qualifications Ordinance (Dnr C2007/723). Specific learning objectives to be achieved in the Master’s thesis are for the student to be able to:

1) Apply significantly specialised knowledge in the main area/specialisation of the programme in his or her project and relate this to current research and development work in a scientifically correct way,
2) Choose and justify the choice of method in the project, within the main area/specialisation of the programme,
3) Contribute to research and development work, and be able to relate his or her work to the relevant scientific and technical/industrially/architectonic contexts,
4) With a holistic approach, to identify, formulate and deal with complex issues critically, autonomously and creatively,
5) To plan and perform highly qualified tasks using adequate methods within given parameters, and to be capable of critically evaluating this work,
6) Create, analyse and critically evaluate different technical/architectonic solutions,
7) Integrate knowledge critically and systematically,
8) Present clearly and discuss his or her solutions in English, as well as the knowledge and the arguments on which these are based,
9) Identify, within the parameters of the specific project, the questions that need to be answered in order for the relevant societal, ethical and ecological aspects to be taken into consideration, and
10) Take into account and discuss ethical aspects of research and development work, both as regards how the work is to be performed, as well as what is to be investigated/developed.
11) Identify and discuss the need for additional clarification of various aspects of the project prior to decision and implementation, where relevant.
2. Evaluation criteria for the master’s thesis within Architecture

At Chalmers School of Architecture, we have developed seven evaluation criteria to enable the aim of the master’s thesis.

1. Thesis question; The thesis question(s) should relate to the thesis (i.e. the student’s work) to relevant design and research issues in the fields of Architecture and Urban Design / Design for Sustainable Development and optionally to other relevant fields of research.

The thesis question(s) should be supported and made credible by references in the form of annotated precedent studies, case studies and/or an annotated bibliography.

To what degree is the thesis question anchored in research; independent, critical and creative thinking; and depth of knowledge in the fields of Architecture and Urban Design / Design for Sustainable Development?

2. Context; The context is dependent on the thesis focus and must be clearly formulated in each case: Cultural, morphological, historical, ecological, social, political, material, technological, typological, disciplinary (theoretical), programmatic, etc.

Both the site and the program for a building / urban design may typically be considered part of the context of a thesis project. The context for a more theoretical or technical thesis may be defined differently.

3. Method; How has the thesis been developed? The methods may include analysis, design process, evaluation and iteration. The choice of method should be motivated and relevant within the fields of Architecture and Urban Design / Design for Sustainable Development.

4. Concept; How has the student transformed the thesis question(s) and context(s) into a relevant set of architectural or urban ideas? The ability to handle conceptual issues is evaluated.

5. Design; Design is where the thesis is tested, artistically articulated and put into practice. The design work might range from application in the form of a building or urban design proposal to speculative strategies, scenarios and/or prototypes.

6. Presentation; The presentation may include media such as drawings or models as well as text and a verbal presentation and defence. The presentation should support a coherent argument by selectively giving insights to the work that has been done in the thesis.

7. Conclusion; The process and results of the thesis should be discussed and reflected upon in a brief written as well as verbally presented conclusion.

3. Directions

We have 9 directions for the master’s thesis, each creating a studio environment with a team of examiners and supervisors. The directions are connected to three divisions at the department:

Method and Theory

- Material Turn: Jonas Lundberg, Daniel Norell, Jonas Runberger, Karin Hedlund och Kengo Skorick)
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- **Matter Space Structure**: Morten Lund, Jonas Carlsson, Naima Callenberg, Peter Christensson

**Urban Development**
- **Urban Morphology**: Meta Berghauer Pont, Lars Marcus
- **Urban Challenges**: Emilio Brandao, Joaquim Tarraso, Nils Björling och Kengo Skorick
- **Critical spatial perspectives**: Lena Falkheden, Kristina Grange, Nils Björling, Julia Fredriksson, Henrietta Palmer, Anna-Johanna Klasander

**Building design**
- **Housing**: Ola Nylander, Sten Gromark, Kaj Granath
- **Healthcare**: Peter Fröst, Christine Hammarling, Elke Miedema, Saga Karlsson
- **Building and Tectonics**: Mikael Ekegren och Björn Gross

**Building design and Method and Theory**
- **Transformation and conservation**: Kia Bengtsson, Paula Femenias, Liane Thuvander

### 4. Examiner and supervisor

**Examiner**
The Examiner is given 10 hours per student to conduct the following:
- Scientific and quality-related responsibility and responsibility for achievement of the learning objectives for the thesis.
- Is responsible for it being possible to produce the thesis with the resources available.
- Draws the attention of the student/s to Chalmers’ policy for publicity and confidentiality.
- Is responsible for checking the essay with a plagiarism tool and undertaking measures in the event of suspected plagiarism.
- Is responsible for presentation of the work in accordance with current rules.
- Chairs the midterm, final and open seminar presentations.
- Approves all parts of the deliverance.
- Approves the opposition to a thesis for the student giving the opposition.
- Approves attendance at presentations for their own and other students.
- Signs all approved components and approves the thesis when all components have been approved.
- Is responsible for the essay being registered in Chalmers Publication Library (CPL), and as full text if the student has approved this.

**Supervisor**
The supervisor is given 15 hours per student to conduct the following:
- Ongoing scientific/technical/artistic support for the student/s during production of the thesis and assisting them with the practical processes.
5. Ping-Pong, Workcard and Reference System

Ping-Pong
All of the communication for the general deliverances will take place through Ping-Pong and all material for Exhibition and catalogue is delivered by you through Ping-Pong.

In Ping-Pong, there is a unique hand-in folder for each task, where you shall upload your material, by the given deadlines. When you upload a file please name as follows:
Surname Name_Assignment
For example: Ollar Anita_Midterm Abstract Draft
Under the Documents on Ping-Pong you can find links to schedules, contact details, etc. Furthermore, we have uploaded useful files such as the timeline, evaluation criteria.
If you do not deliver on time you will have to wait for the next opportunity.

Work Card
The Work Card is used throughout the term and should be signed by the examiner and by the attending examiner, to register the compulsory parts, such as deliverance of booklet, your opposition and attendance at presentation both at the midterm and the final seminar.
The Work Card also states if you agree to publish your material.

Find the work card at the following link:

Reference System
The reference system being used is the APA system. APA is an author + year reference style consisting of two parts: (a) the in-text citation which includes the author’s last name, the year of publication and the page numbers, and (b) an alphabetical list of references at the end of the document. APA style also includes conventions and rules on how to write and format an academic paper.
http://guides.lib.chalmers.se/APA_Reference_Guide

6. Workshop
During the master’s thesis you are given 400kr in the workshop, to use for models and building your Exhibition material. These can be used throughout the term.
7. Examination, Structure and Submissions

The master’s thesis is awarded the grade of Pass or Fail. To be awarded the grade of Pass,

The following are required for the award of the grade Pass:

- An approved project plan
- An approved thesis in the format of a booklet.
- An approved opposition of another fellow student’s thesis at a Midterm Seminar, and light opposition at an open seminar.
- Attendance at four additional seminar both at the Midterm, Final and Open Seminar presentations.
- A presentation, a version of the booklet, exhibition material, an abstract, should be delivered during the Midterm, Final and Open seminar.
- An approved presentation and defence of the thesis at a Final Seminar
- Delivery of the approved report digitally and in two printed copies

Structure

The master’s thesis consists of the following obligatory opportunities, see below. Additional to these are tutorials and extra evaluations points, specified in each direction.

- **Introduction meeting:** Sep 3, between 13-15, in room SB1 S393
- **Start-up meeting,** week 36, with teacher and students, arranged by teacher
- **Pre-mid-term information meeting:** 2 Oct, between 13-16, in room K582
- **Mid-term seminar:** 22-25 Oct, SB033
- **Pre-Final information meeting:** 20 nov, between 13-16, in room K582
- **Final seminar:** Week 50-51,
- **Open seminar and Exhibition:** 16-18 Jan, ljusgården
- **Final hand-in:** Jan 31.

Submissions:

- **Start-Up**
  - Project Plan (100% Complete)
  - Abstract
- **Midterm Seminar**
  - Presentation Material (50% Complete)
  - Booklet (50% Complete)
  - Abstract and picture
- **Final Seminar**
8.1 Midterm Seminar and Exhibition

The purpose of the Midterm Seminar is for the Master’s Thesis student to receive feedback on their work, to start to structure their material for a finalization practice their presentation and see how the work will proceed in the remaining weeks. Fellow students can understand how others deal with their thesis and get inspired by different types of material, as well as different examiners. We are aiming for a cross-disciplinary way of working.

For the examiner and tutor, it is important to see how far the students have come and get familiar with their work. Their role is to give extensive feedback to the students.

The material should be 50 % completion. We expect both refined material and raw material.

The presentation should be conducted even if the student has fallen behind. Reasons for cancellation are if student do not continue the term. If the student becomes sick, and then the opposition is moved to the final seminar and a presentation with exhibition, is booked the week after.

The Midterm Seminar is structured in an Exhibition form. The student should present an exhibition material, a booklet, an abstract and present the material. The student is allowed to have a digital presentation as well. This has to be defined one week before the midterm exhibition.

Each student is given 45 minutes:

- 15 min presentation by the student
- 15 min opposition from another student
- 15 min feedback from examiner and supervisor

8.2 Opposition

The student shall be an opponent on another thesis during the Midterm Seminar. The opposition is cross-disciplinary, where students from different directions give the opposition. At most two students may serve as opponents for one and the same thesis. The opponents have 15 minutes at their disposal and the whole time shall be made use of. After the presentation of the opponents’ points of view, others in attendance may ask questions.
The opponents shall examine the written composition, as well as the material being presented. The opponents’ work is assessed by an examiner for the work presented and approved opposition is signed on the Work Card. Note that the examiner can choose to not approve your opposition if she or he assesses it to be of too low quality.

The opposition should focus on the evaluation criteria’s and the learning outcomes of the master’s thesis.

The student should also be opponent, two times, during the Open Seminar. During this opportunity, the feedback is more open and reflective.

8.3 Oral Presentations

All the oral presentations are to take place in English. Exemptions can be granted for special circumstances.

The student shall participate in two other presentations, at least, one during the midterm and the Final Seminar. The present examiner of the presented theses signs the approved participation on the Work Card. So please bring your work card to these occasions.

8.4 Secretary

The student will be a secretary for another student during the midterm- and Final Seminar. The secretary needs to attend one other student’s presentation and take notes, write down all the comments and feedback, suggested literature, discussion around his/her topic etc. At the end give it over to the student who presented.

8.5 Final Seminar

The purpose of the Final Seminar is to assess the student’s material and determine if the material can: Pass, Pass with Conditions, or Not Pass.

After the seminar, the examiner makes a decision based upon the guidance from the jury. The jury consist of an external critique and the rest of the direction, as well as the examiner and supervisor.

The examiner will define the material she or he wants to see before the final seminar, as well as when they want you to send it and to whom. Before the seminar the examiner will invite you and the external critic to the seminar.

The presentation should be conducted even if the student has fallen behind. Reasons for cancellation are if the student do not continue the term. If the student becomes sick, a new opportunity is booked.

If the student does not pass, or pass with conditions, they have the right to get a written summary of the necessary adjustments to the material.

The format of the seminar is as follows:

(the time, 1 or 2 hours, and the set-up may vary according to the examiner):

- The examiner leads the seminar.
- The examiner begins by presenting the student, supervisor and jury.
- The student presents his/her work. (approx. 10-20 min.)
Afterwards the jury gives their comments, ask questions, etc. The examiner will give the floor first to the internal critic.

Then it is free for all participants at the seminar to provide comments, ask questions, etc.

The examiner ends the seminar whereby the jury discuss the material behind closed doors.

The examiner takes a brief meeting with the student and informs the student about the decision and the conditions connected to that decision.

If the students receives a pass with conditions, the examiner should in text define what these conditions are.

The format of the presentation is decided with your examiner. The general form is power point or/and posters.

8.6 Open Seminar and Exhibition

The purpose of the Exhibition and the Open Seminar is to showcase your material. The Open Seminar gives a deeper understanding of your work and process during a public presentation.

The students will be opponents at two otter presentations, the opposition is more open and reflective. You are at this point approved and their feedback is a new reflection. We will also invite an internal reviewer from the school.

You can only join the open seminar and exhibition if you pass you final seminar. If you do not pass you will join the next terms open seminar and exhibition.

There is no digital presentation during the open seminar. You shall exhibit your work in prints and models, accompanied by the Booklet (draft). Models can include process models as well as presentation models, full scale tests or three-dimensional conceptual models. The way you exhibit should be easy to read at a glance, emphasize the important aspects but also be able to delve deeper into. All presentations should be in English.

Each presentation seminar is 45 minutes and will be moderated by the examiner. This shall include time for an introduction by your examiner, your presentation, and discussion with the reviewer as well as time for open questions. They are scheduled in parallel sessions at different places and this will be booked by you.

8.7 Written Presentation

The essay shall be written in English. Exceptions may only be made for master’s programmes where the language of tuition is Swedish. When two students have produced a joint thesis, the distribution of labour shall be made clear from a contribution report, which is appended separately. The essay shall be checked using an anti-plagiarism tool.

Chalmers' theses shall be registered and published in Chalmers Publication Library, CPL. They will then be searchable in the service Studentarbeten and freely accessible and searchable on the Internet. The student can decline electronic publication but registration (i.e. a searchable post without the full text) is mandatory. It is a requirement for electronic publication of the full text that all authors have signed and approved the publication agreement on the Work Card.
a) Mandatory Content

- Abstract (min 350 ~ max 500 words)
- Table of Contents
- if the thesis is written in Swedish: an extended summary (7000 characters, including spacing)
- Student Background
- Introduction:
  a. Purpose/exploration
  b. Main questions and objectives
  c. Background (Presenting the chosen field and how your subject fits in to that discussion)
  d. Method (how you have worked)
  e. Theory (Who are your references’ and how have you used them)
  f. Delimitations
  g. Reading instructions
- The main material
- Discussion (Summary and answering HOW YOU have answered YOUR questions and what you have ADDED to the discussion)
- List of references

b) General requirements for the booklet:

- Maximum 180 000 words (excluding only the references)
- Maximum 80 pages
- Only portrait or landscape A4
- The referencing shall be done according to the APA style: http://guides.lib.chalmers.se/APA_Reference_Guide
- The binding of the booklet should cover the whole length of the pages. No clips, paper or bindings which only have 2-4 points.

c) Booklet Cover Required Components:

- Project title / subtitle
- Project title in English if the assignment is in Swedish
- Author
- Institution (Chalmers School of Architecture + department)
- Name of Examiner
- Name of Supervisor

d) First Page (Interior) Required Components:
e) **Hand-in**

- 2 printed copies to Elin Björklund. The printing cost is at your charge. The binding of the booklet should cover the whole length of the pages. No clips, paper or bindings which only have 2-4 points.
- A filled-in Work Card form to Elin Björklund. This is a document that grants Chalmers the permission to publish your thesis electronically and to make it available on the Internet. You will find the form at [https://student.portal.chalmers.se/sv/chalmersstudier/kandidat-och-examensarbete/examensarbete/Documents/Master_Thesis_Registration_Form.pdf](https://student.portal.chalmers.se/sv/chalmersstudier/kandidat-och-examensarbete/examensarbete/Documents/Master_Thesis_Registration_Form.pdf)
- Two digital copies, not bigger than 40MB. This is e-mailed to Elin Björklund, elin.bjorklund@chalmers.se, and posted on ping-pong.

Make sure that every part of the work card is filled in and then get the examiners signature. The examiner needs to have received the finished booklet before she or he signs the work card. Passing the final seminar is one part of the examination, leaving in a finished booklet another. There will be a box in the reception where you can leave your work card and printed copies of your master’s thesis.

**If you do not deliver you material before the stated date, you will be required to do the Exhibition again to be able to finalize the course.**

### 8.8 If you do not pass

As stated before, even if the student fall behind they should do the midterm and final seminar. When they do not pass their final seminar, the student will have two more opportunities for a final seminar.

If the student does not pass, or pass with conditions, they have the right to get a written summary of the necessary adjustments to the material.

When the student does not pass they cannot access more tutoring, rather the student will define when she or he wants a new seminar, from the time that is available, the examiner will then assess the material before the seminar. During these re-examination seminars there is no external jury invited.
The student may conduct their MT at half-time, but then that should be stated in the beginning of the term. The student then has to participate in all the seminars for each term.

8.9 Evaluation
During the term we choose student representatives and meet them in the middle of the course and after the course is finished. The student will be asked to answer a mandatory evaluation in the end of the course. The evaluation will later be commented on by the student representative.

8. Dates and deadlines
9.1 Schedules
All the dates for the Midterm-, Final- and Open Seminars will be pre-booked by the examiner in the beginning of the term. Based upon those dates Maja Kovács will create schedules and publish it on ping-pong. Based upon this process you will know when you will present early on in the term, enabling the student to better plan their process. Schedules will be available on PingPong once pre-bookings are completed.

9.2 Pre-Midterm and Pre-Final Seminar
Pre-Midterm: 2nd October 13:00-15:00, room K582
Pre-Final: 20th November 13:00-15:00, room K582

The purpose of the seminars is to give general information about the master’s thesis term, as well as lifting certain issues specific for this term.

9.3 Midterm Seminar, 22-25 Oct, Room: SB022
DEADLINE Request equipment: MONDAY 10th of October to Naima
DEADLINE Abstract: Monday the 10th of October on ping-pong
DEADLINE Booklet draft: Tuesday the 18th of October on ping-pong
NOTE: The examiner will define if and when she or he wants you to send the material to them directly, and in some cases before the assigned date.
DEADLINE Hang the material in Exhibition: MONDAY the 22nd of October, before 12.00 o’clock, the exhibition starts at 13.00

All the Midterm Seminars take place between 22-25 of October. For the presentations, we provide 2 grey screens (1,2*1,8 each) for students to set-up their exhibition material. Specific guidelines will be given during the pre-midterm meeting, but it’s mainly the student that decided what to hang in discussion with their tutor.

Additional to the exhibition, the student can do a digital presentation. If you need a projector and a screen, or other equipment, you need to send e request to Naima before the 10th of October.

The student will be both an opponent and a secretary at the seminar.

The latest version of the abstract and the booklet should be handed-in on the 10th and 18th of October and also hanged in your exhibition.

● Abstract
You shall deliver an abstract of 350–500 words. The abstract must be a PRECISE AND WELL WRITTEN description of your work in English. Look at some good advices for summary writing and examples from previous master’s theses at: http://fm.arch.chalmers.se/Recommendations for abstract writing.html. The Abstract is incorporated into the Booklet (draft).

- **Booklet (draft)**
  You shall hand in your 50% completed Booklet (draft) of your Master’s Thesis for the Midterm Seminar. This will help the viewer to understand more of the aim, purpose and future development of your project. Thus, not only the current stage of your thesis is presented at the Midterm Seminar, but an accompanying framework will be also available. You shall hang a physical copy of your Booklet (draft) at the Midterm Exhibition.

9.4 Final Seminar, 10-14 or 17-21 December, week 50-51
DEADLINE Abstract: Monday the 3rd of December on ping-pong

NOTE Booklet: The examiner decides if and when you deliver your booklet and to whom you need to send it to

The format of the presentation is decided with your examiner. The general form is power point or/and posters. Maja will organize this with your examiner and will provide you with a schedule and what equipment that are available.

You will take notes for another student (secretary duty), but you won’t be an opponent.

9.4 Open Seminar and Exhibition, 16-18 January, Light-yard
PICK UP OF PQ CARDS: at Pre-Final: 20th November 13:00-15:00, room K582
DEADLINE Request equipment: 3rd of January to Naima
DEADLINE: LEAFLET PRINTED AND IN PLACE: Tuesday the 15th January, before 16:00
DEADLINE: Exhibition Set-Up: TUESDAY 15th of January, before 16:00
EXHIBITION OPENING: 15th of January 17:00
DEADLINE: Exhibition Set-Down: MONDAY the 21st of January, before 13.00

You shall exhibit your work in prints and models, accompanied by the Booklet (draft). Models can include process models as well as presentation models, full scale tests or three-dimensional conceptual models. The way you exhibit should be easy to read at a glance, emphasize the important aspects but also be able to delve deeper into. There are no digital presentations.

One new thing is the Leaflet, which will be printed and placed beside your work for guests and potential recruitment opportunities. Guidelines will be available on Ping Pong. Submissions will be uploaded in the Ping Pong Assignments. You are responsible to design and print your Leaflets (50). Printing instructions found in Ping Pong. For covering the printing, you will receive printing cards. Each student can have 1 card (275 PQ). You can collect the PQ cards during the Pre-Final Seminar.
9.5 After Presentation: Hand-in

DEADLINE: 31st of January

9.6 Evaluation

DEADLINE Evaluation: 18th of January

A mandatory evaluation will be sent or given out.

9. Copyright

The copyright law is based on the law (1960: 729) on copyright in literary and artistic works, the law is commonly referred to as the Copyright Act. The copyright consists of an economic and an ideal right both of which belong to the author. The author is the person who has created the work. The student/s is the author of the degree project.

The author may choose to transfer, in whole or in part, the financial rights to others, or to allow others to exercise their rights. Transfer means that the author resigns and assigns ownership of the economic rights on agreed terms.

The ideal right includes the right of the author to be mentioned in connection with his work, not having to withhold any changes to the work or the publication of the work in context where the author’s artistic or literary reputation or self-esteem is likely to be violated.
APPENDIX 1: Evaluation criteria

1. Thesis question(s)

The thesis question(s) should relate the thesis (i.e. the student’s work) to relevant design and research issues in the fields of Architecture and Urban Design / Design for Sustainable Development and optionally to other relevant fields of research.

The thesis question(s) should be supported and made credible by references in the form of annotated precedent studies, case studies and/or an annotated bibliography.

Evaluation: To what degree is the thesis question clearly articulated, current and relevant? To what degree is the thesis question anchored in research; independent, critical and creative thinking; and depth of knowledge in the fields of Architecture and Urban Design / Design for Sustainable Development?

2. Context

The context is dependent on the thesis focus and must be clearly formulated in each case: Cultural, morphological, historical, ecological, social, political, material, technological, typological, disciplinary (theoretical), programmatic, etc.

Both the site and the program for a building / urban design may typically be considered part of the context of a thesis project. The context for a more theoretical or technical thesis may be defined differently.

Evaluation:
To what degree has the context of the thesis been critically identified and explored rather than taken for granted?
To what degree does the thesis engage with the identified context in a fruitful way – through site surveys, representations, mappings, supporting theories, precedent studies, material testing, contact with stakeholders, etc.?
To what degree does the defined context engage in ethical questions regarding for instance ethnicity, gender and/or sustainability? The differing needs and functional abilities of all people in society, as well as the relation between people and the physical environment, should be taken into account.

3. Method

How has the thesis been developed? The methods may include analysis, design process, evaluation and iteration. The choice of method should be motivated and relevant within the fields of Architecture and Urban Design / Design for Sustainable Development.

Evaluation:

To what degree does the chosen method allow for critical and systematic integration of knowledge and tools relevant to the thesis?

4. Concept
How has the student transformed the thesis question(s) and context(s) into a relevant set of architectural or urban ideas? The ability to handle conceptual issues is evaluated.

Evaluation:
To what degree does the concept holistically synthesize issues based on the thesis question(s) and context(s)?
To what degree are the concept(s) articulated and made relevant beyond the specifics of the design?

5. Design
Design is where the thesis is tested, artistically articulated and put into practice. The design work might range from application in the form of a building or urban design proposal to speculative strategies, scenarios and/or prototypes.

Evaluation:
To what degree does the design evidence an ability to handle fundamental architectural concepts like space, structure, light, tectonics, massing, etc.? Innovative interpretations of these fundamental concepts should be awarded.
To what degree does the design evidence an ability to analyse and handle complex relationships based on program, circulation and activities? _____
To what degree is the design, where relevant, supported by technology such as construction, climate, artificial light, acoustics, material specifications, economy, etc.?

6. Presentation
The presentation may include media such as drawings or models as well as text and a verbal presentation and defence. The presentation should support a coherent argument by selectively giving insights to the work that has been done in the thesis.

Evaluation:
To what degree does the formatting and articulation of the work in the thesis (language, graphics, models, references, etc.) strengthen the overall argument?
To what degree does the discussion and dialogue with the student evidence a clear understanding of her/his own work?

7. Conclusion
The process and results of the thesis should be discussed and reflected upon in a brief written as well as verbally presented conclusion.

Evaluation:
To what degree does the presentation critically reflect upon the results of the thesis as well as the knowledge and process that support them?