

Graduation Manual

Geomatics

For the Built Environment

Academic year 2017–18

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Introduction

This manual is based on the official regulations of the graduation process of the Faculty of Architecture and the Built Environment and is meant for students, mentors, delegates of the Board of Examiners and others who are involved in the graduation process. This manual contains important information about the structure and regulations of the graduation process.

The manual is part of the official regulations and is sent to all students who enroll for a Master 3 studio at the start of the semester.

In the Academic year 2017-2018 a compulsory scan on plagiarism with the use of Turn-it In will be introduced. As soon as the procedure and technical support is available, all involved will be informed.

We prefer a system already introduced at the TPM Faculty, where students first get the possibility to do the check themselves and have to hand in a final version before the P4 presentation. The result of this plagiarism scan will be assessed by the involved mentors.

Section 1 provides a scheme of the setup of the evaluations and a scheme explaining the responsibilities of everyone involved per evaluation.

Section 2 contains information about the quorum, the appraisal and the 'Cum Laude' and 'honorable mention' regulation.

The appendices contain details on the subjects to be assessed, graduation plan, reflection requirements, an example of a graduation contract and the references to official regulations which this manual is part of.

Starting the academic year 2014-2015 the digital graduation registration is used. All involved teachers have access to the information in the SharePoint application that is used for this registration. The registration includes personal information of the student, the composition of the mentor team, registration for the P2 and P5 and the all assessments.

Each semester Education and Student Affairs adds the names of the new enrolled Master 3 students to this digital registration.

The involved coordinators, mentors and delegates of the board of examiners can add additional information and notes to the file of each student. For all graduates the main mentor is responsible for completing the digital assessment registration.

1.0 Graduation process

1.1 Admission

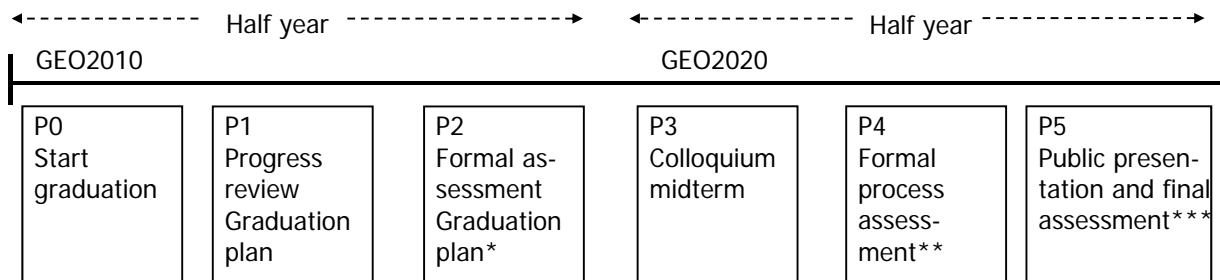
Students may only embark on the graduation work if they have participated in all common core courses and have completed them or at least 50 EC of them.

Students who enter the graduation programme without having completed all common courses (60 EC) should take in mind that they will only be admitted to the P2 if they have completed all common courses of the first year with the exception of 1 electives of 5 EC maximum.

1.2 Evaluations

In the course of the graduation process two obligatory progress reviews (P1 and P3) and three formal assessments (P2, P4 and P5) take place. All evaluations are to take place within the assigned periods, indicates in the academic graduation calendar. The location of all evaluations must be situated at the Delft University of Technology Campus. For the formal assessments the location will be within the the building of the Faculty of Architecture.

Time Schedule		
What	When	Responsible
P0: Register for graduation	Start	<i>Student</i>
P1: Progress review <i>Product: draft Graduation plan</i> <i>Presentation: 5 minutes</i> <i>Questions & Appraisal: 5 minutes</i>	9-10 weeks after P0	<i>Graduation Coordinator (event)</i>
<i>Submit final Graduation plan to both mentors and the Delegate of the Board of Examiners</i>	<i>1 week before P2</i>	<i>Student</i>
P2: Formal assessment Graduation plan <i>Presentation: 15 minutes</i> <i>Questions : 15 minutes</i> <i>Closed Appraisal: 15 minutes</i> <i>Committee informs student about result assessment: passed, restriction, failed</i>	9-10 weeks after P1	<i>Graduation Coordinator (event)</i>
P3: Colloquium midterm <i>Presentation: 15 minutes</i> <i>Questions: 15 minutes</i>	7-8 weeks after P2	<i>Main Mentor</i>
<i>Submit draft thesis to both mentors, the co-reader, and Delegate of the Board of Examiners</i>	<i>1 week before P4</i>	<i>Student</i>
P4 Formal process assessment <i>Presentation: 30 minutes</i> <i>Questions: 15 minutes</i> <i>Closed appraisal: 15 minutes</i> <i>Committee informs student about result assessment: GO/NO-GO</i>	7-8 weeks after P3	<i>Student, Main Mentor</i>
<i>Submit final thesis to both mentors, and the Delegate of the Board of Examiners</i>	<i>1 week before P5</i>	<i>Student</i>
P5: Public presentation and final assessment <i>Public presentation: 30 minutes</i> <i>Questions: 15 minutes</i> <i>Closed appraisal: 15 minutes</i> <i>Result and graduation ceremony: 30 minutes</i>	4-5 weeks after P4	<i>Student, Main Mentor</i>



- * P2: Formal assessment of the Graduation Plan, admission to GEO2020.
- ** P4: Formal assessment of draft thesis
- *** P5: Formal assessment of final thesis and presentation.

1.3 Mentors and graduation team

Main Mentor (Daily supervisor)

The main mentor is a staff of one of the groups involved in the MSc Geomatics programme. He / she is responsible for the overall Graduation Project and is an expert in the field of the graduation project. He / she acts as the daily supervisor, is involved in all evaluations and takes care of the registration of all assessments in Sharepoint.

Second mentor

The Second Mentor is a staff member of the TU Delft whose expertise complements that of the Main Mentor. This person can be from any Faculty at the TU Delft. If the Main Mentor does not hold a PhD, then it is mandatory that the Second Mentor holds one. The Second Mentor must participate in P2, P4 and P5.

Co-Reader

The Co-Reader is a staff at TU Delft that is an expert in the field of research. He/she only participates at P4, and his/her main task is to assess in an unbiased way the quality of the work produced and help grade the final mark for the Graduation Project. He/she must be from another chair(s) than that of the Main Mentor and the Second Mentor. The co-reader for a student is suggested by the staff of Geomatics and arranged by the student.

Delegate of the Board of Examiners (BE)

The Delegate of Board of Examiners participates as chairman during the P2, P4 and P5. The Delegate of Board of Examiners is appointed by the Board of Examiners after admission to the P2.

1.4 Detailed scheme per evaluation

Evaluation 0 PO - Start graduation

<i>Goal</i>	Start of the graduation administration process
<i>Who</i>	Graduation Coordinator together with Education and Student Affairs at the Faculty of Architecture

PO responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Register for GEO2010 during education enrollment period.	Student
	Check whether students meet admission requirements.	Education and Student Affairs
<i>Introduction</i>	Attend the introduction lecture to the Graduation Project (given twice a year).	Student
<i>Completion</i>	If student meets admission requirements, make student file in sharepoint.	Education and Student Affairs
	Check if all students have file in Sharepoint graduation registration.	Graduation Coordinator
	Register main mentor	Graduation Coordinator

Evaluation 1 P1- Progress review Graduation plan

<i>Goal</i>	Assess whether the student's progress guarantees he/she will be able to meet the requirements for the P2 in time.
<i>Where</i>	Reserved room by Graduation coordinator.
<i>Structure</i>	Presentation Graduation plan.
<i>Assessor</i>	Main Mentor, Graduation Coordinator.
<i>Subjects of assessment</i>	Research and process (see Appendix 1).
<i>Method of assessment</i>	Assessment is based on the P1 assessment criteria (appendix 1). The Main Mentor and Graduation Coordinator give the student a good (+), sufficient (0) or negative (-) indication per aspect.
<i>Method of assessment registration</i>	The assessment is registered on the P1 assessment form in the digital Graduation Registration (Sharepoint) by the Main Mentor.
<i>Consequence of Assessment</i>	The student proceeds: If necessary the Main Mentor advises the student about possible improvements.

P1 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Schedule day, time and location and inform <i>student</i> and <i>Main Mentor</i> .	Graduation Coordinator
	15 minutes before session, install (if necessary) digital presentation.	Student
<i>At the evaluation</i>	Present draft Graduation plan.	Student
	Fill in "P1 assessment form" (Sharepoint).	Main Mentor
<i>Completion</i>	Complete registration at the assessment form: use notes, advise and make agreements.	Main Mentor
	Within 2 days after P1. Send the assessment form to the student, with email button on the assessment form.	Main Mentor

Evaluation 2 P2 – Formal assessment Graduation plan

<i>Goal</i>	The P2 assessment is essential to get admission to GEO2020. The base for successfully passing the P2 should be the belief that the student can graduate within six months.
<i>Where</i>	Reserved room by Scheduling BK.
<i>When</i>	During the fixed weeks according to the academic graduation calendar.
<i>Admission conditions</i>	The enrollment for the P2 evaluation is only possible if the student has obtained all ECTS of the first year with the exception of 1 course (5 EC) maximum.
<i>Structure</i>	15 minutes presentation; 15 minutes questions; 15 minutes for appraisal.
<i>Assessors</i> <i>(all required)</i>	Main Mentor, Second Mentor, Delegate of Board of Examiners.
<i>Subjects of assessment</i>	Research, Presentation and Process (see Appendix 1)
<i>Method of assessment</i>	Assessment is based on the P2 assessment criteria. The mentors give the student a good (+), sufficient (0) or negative (-) indication per aspect. The mentors give the student a final conclusion: passed, retake or failed.
<i>Method of assessment registration</i>	The assessment and conclusion are registered on the P2 assessment form in the digital Graduation Registration (Sharepoint) by the Main Mentor.
<i>Consequence of assessment</i>	If a student passes, the chance to graduate within six months is realistic. If the assessment result is "retake", the student does a retake within two weeks, and at result "failed" the student will have to register again for the next P2 period for a new P2 evaluation.
<i>Retake</i>	In case of a "retake" the assessors are convinced that a realistic chance exists the student will be able to pass in 2 weeks. Specific improvement points are described at the assessment form. The main mentor agrees a date and time for the retake with the student, the second mentor and the Delegate of the Board of Examiners. If the mentors and Delegate are not satisfied with results at that date, a "failed" is given, then applies the rule stated under "failed".

P2 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Schedule day and time and inform student, Main Mentor and Second Mentor.	Graduation Coordinator
	Register P2 request in Sharepoint.	Graduation Coordinator
	Register second mentor. One month before P2 at the latest.	Graduation Coordinator
	Check whether student meets the admission requirements and register in Sharepoint.	Education and Student Administration
	Inform student by email on result admission assessment.	Board of Examiners
	Allocate Delegate of the Board of Examiners and register the appointment in Sharepoint.	Secretary Education and Student Affairs (authorized by the board of examiners)
	Write a Graduation Plan (use template).	Student
	Hand in the Graduation Plan to the Mentors and and send Graduation Plan to the Secretariat of the Board of Examiners at least one week before P2.	Student
	Read and assess the Graduation Plan.	Mentors and Delegate Board of Examiners
	15 minutes before session, install digital presentation, prepare the session.	Student
<i>At the evaluation</i>	Act as chairman.	Delegate of Board of Examiners
	Present graduation plan, draft research results and draft of graduation project using digital presentation.	Student (See appendix 1 and 2 for exact products for this evaluation)
	Ask questions.	All mentors
	Evaluate academic level of student's presentation and the answers to the mentors' questions.	Delegate of Board of Examiners and all mentors
<i>At the appraisal</i>	Act as chairman.	Delegate of Board of Examiners
	Determine final judgement.	All mentors
	Document the judgement and conclusion on the P2 Assessment form in the digital Graduation Registration (Sharepoint).	Main Mentor

P2 responsibilities		
Part	Action	Responsible
<i>Completion</i>	Inform the student of assessment. Make arrangements for retake if applicable.	Main Mentor
	Complete assessment form with own notes within two workings days.	Second mentor and Delegate of Board of Examiners.
	Check P2 assessment form on completeness and send it to the student by email, using the button on the Assessment form within five workings days.	Main Mentor
	Check whether forms are all present and filled in correctly. Undertake action if items are missing; register completion.	Education and Student Affairs
	Register P2 completion date in Osiris.	Education and Student Administration
	After succesful P2. Determine who will be the co-reader at the P4 and register in graduation administration.	Graduation Coordinator

Evaluation 3 P3 - Colloquium midterm

<i>Goal</i>	Determine whether the students progress guarantees he / she will be able to meet on time the requirements for the P4.
<i>Where</i>	Reserved room by Main Mentor.
<i>Structure</i>	15 minutes presentation; 15 minutes questions.
<i>Assessors</i>	Main Mentor, Second Mentor (optional).
<i>Subjects of assessment</i>	Research, Presentation and Process (see Appendix 1).
<i>Method of assessment</i>	Assessment is based on the P3 assessment criteria (see Appendix 1). The Main Mentor gives the student a positive or negative indication concerning his progress.
<i>Method of assessment registration</i>	The assessment and conclusions are documented on the P3 assessment form in the digital Graduation Registration (Sharepoint) by the Main Mentor.
<i>Consequence of assessment</i>	This is not a formal assessment, it is used as an indicator for the student to know if he/she is on track. No matter what the assessment is, the student proceeds. If necessary, the Main Mentor advises the student about possible improvements.

P3 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Schedule day, time and location and inform student and Second Mentor.	Main Mentor
	Register scheduled date in digital graduation registration.	Main Mentor
	15 minutes before start evaluation, prepare session.	Student (See appendix 1 for exact definition for required products for this evaluation)
<i>At the evaluation</i>	Present graduation plan and graduation project.	Student (See appendix 1 for exact description of required products for this evaluation)
<i>Completion</i>	Fill in the P3 assessment form (Sharepoint). Determine conclusion: YES – student made enough progress to register for P4. NO – student didn't make enough progress for P4.	Main Mentor

P3 responsibilities		
Part	Action	Responsible
<i>Completion</i>	Inform the student of assessment; advice on progress.	Main Mentor
	Send the digital assessment form to the student, within 2 days after P3. Register P4 date, preferred time (morning, non, evening) in the Student Progress Overview in the Graduation Registration (Sharepoint).	Main Mentor
	Before registering the P4 date check availability Second Mentor and Delegate Board of Examiners.	Main Mentor
	Register P3 completion date in Osiris.	Education and Student Administration

Evaluation 4 P4 - Formal process assessment

<i>Goal</i>	Determine whether the content of the research and the presentation meets the requirements to admit the student to the final public presentation (P5).
<i>Where</i>	Reserved room by Scheduling BK.
<i>When</i>	During fixed weeks according to the academic graduation calendar.
<i>Admission requirements</i>	Student has obtained all educational components with exception from P4 and P5 assessment by application for P4 assessment.
<i>Structure</i>	30 minutes presentation; 15 minutes questions; 15 minutes closed deliberation committee; Committee informs student about result: GO/NO-GO.
Assessors (all required)	Main Mentor, Second Mentor, Co-reader, Delegate of Board of Examiners.
<i>Subjects of assessment</i>	Research, Presentation, Process and Project (see Appendix 1).
<i>Method of assessment</i>	Assessment is based on the P4 assessment criteria. The mentors give the student a good (+), sufficient (0) or negative (-) indication per aspect. Finally, the mentors give the student a positive (GO) or negative (NO-GO) judgement on the graduation project.
<i>How is the assessment registered</i>	The assessment and conclusion are registered on the P4 assessment form in the digital Graduation Registration (Sharepoint).
<i>Consequence of assessment</i>	At result "GO" the student proceeds to the P5; At result "NO GO" the student has to register for a new P4 in the next period (retake P4). The students proceeds, if necessary the Main Mentor advises the student about possible improvements.
<i>Retake</i>	At result "NO GO" the retake will be held in the next P4 period. An appointment must be made with the Main Mentor. If the retake ends in 'NO-GO', an appointment with the study counsellors needs to be made.

P4 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Fill in the P4 application form and collect signatures from all mentors including the delegate of the Board of Examiners.	Student
	Deliver P4 form to Secretariat Education and Student Affairs.	Student
	Register the P4 applications in the digital graduation registration.	Secretary Education and Student Affairs
	Check whether student meets the admission requirements.	Education & Student Administration
	Inform the student on the result of the admission check.	Education & Student Administration on behalf of the Board of Examiners
	Schedule P4 day, time and location .	Scheduling BK

P4 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Send draft thesis (in PDF to all mentors and delegate at least 1 week for P4.	Student
	15 minutes before start evaluation, prepare session.	Student (See appendix 1 for exact definition for required products for this evaluation)
<i>At the evaluation</i>	Act as chairman.	Delegate of Board of Examiners
	Present research result/ graduation project.	Student (See Appendix 1 for exact description of the products for this evaluation)
	Ask questions.	Both mentors, and co-reader
	Assess academic level of students' presentation and questions of the mentors.	Delegate of Board of Examiners
<i>At the closed appraisal</i>	Act as chairman.	Delegate of Board of Examiners
	Determine final assessment.	Both mentors, and co-reader
	Determine if the student must be advised to consult a academic counsellor.	Both mentors, and co-reader, and delegate of Board of Examiners
	Document the assessment and conclusion on the digital P4 assessment form.	Main Mentor
<i>Completion</i>	Inform the student of the final assessment.	Main Mentor
	If result GO: determine P5 date and register P5 date, preferred daypart and preferred room in digital Graduation Registration (Sharepoint).	Both mentors and delegate (date) Main Mentor (register)
	Process graduation document within five workings days (Sharepoint) and send it to student by email, using the button on the assessment form.	Main Mentor
	Check whether forms are filled in correctly. Undertake action if items are missing.	Education & Student Affairs
	Register P4 completion in Osiris.	Education and Student Administration

Evaluation 5 P5 - Public presentation and final assessment

<i>Goal</i>	Public presentation and final assessment.
<i>Where</i>	Reserved room by Scheduling BK.
<i>When</i>	During fixed weeks according to the academic graduation calendar.
<i>Structure</i>	For the student 15 minutes preparation is scheduled, followed by: 30 minutes presentation; 15 minutes questions; 15 minutes closed appraisal; 15 minutes announcing the results and graduation ceremony.
<i>Assessors</i> <i>(all required)</i>	Main Mentor, Second Mentor, Delegate of Board of Examiners.
<i>Subjects of assessment</i>	Research, Presentation, Process and Project (see Appendix 1).
<i>Method of assessment</i>	Assessment is based on the P5 assessment criteria. The mentors give the student a mark for: 1. Research (50%); 2. Presentation and questions (20%); 3. Project (15%); 4. Process (15%).
<i>How the assessment is registered</i>	The assessment and conclusions are registered on the P5 assessment form in the digital Graduation Registration (Sharepoint).
<i>Consequence of assessment</i>	All criteria should be awarded with at least 6.0 and the end mark should also be at least 6.0. Student graduates and receives subsequently his / her Master's degree diploma.

P5 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Register a preferred P5 date, in the P5 period according to the Graduation Calendar, in the digital registration (at P4 assessment form).	Main Mentor
	Check whether student meets the admission requirements. If yes deliver diploma to Education- & Student Affairs BK.	Education and Student Administration and Central Student Administration.
	Determine whether embargo on graduation work is desired. If yes: Apply a request: see Forms .	Student and main mentor
	Inform student on admission, procedure and P5 obligations.	Secretary Education and Studentaffairs
	Schedule P5.	Scheduling BK
	Print student's blank P5 mark list.	Secretary Education and Studentaffairs
	Collect the diploma and blank mark list at Education- & Student Affairs on P5 day.	Delegate of Board of Examiners

P5 responsibilities		
Part	Action	Responsible
<i>Preparation</i>	Deliver a printed copy of the final thesis to all mentors, the Delegate of the Board of Examiners and the Director of Education at latest one week before P5.	Student
	15 minutes before start evaluation, prepare session.	Student (See Appendix 1 for exact definition for required products for this evaluation)
<i>At the evaluation</i>	Act as chairman.	Delegate of Board of Examiners
	Present research results.	Student (See appendix 1 for exact definition for required products for this evaluation)
	Ask questions.	Both mentors (in this order: Second, Main Mentor)
	Assess academic level of students' presentation and questions of all mentors.	Delegate of Board of Examiners
<i>At the closed appraisal</i>	Act as chairman.	Delegate of Board of Examiners
	Determine the marks for all 4 criteria and end mark.	Both mentors
	Register all marks on the P5 assessment form in the digital Graduation Registration (Sharepoint) and on the printed P5 mark form.	Main Mentor
	Open diploma envelop and determine if student graduated "Cum Laude".	Delegate of Board of Examiners
<i>Completion</i>	Welcome student and public to diploma ceremony and explain procedure.	Delegate of Board of Examiners
	Inform publicly the student about his / her final results and clarify.	Main Mentor
	Hand out P5 mark list to student	Main Mentor
	Hand out diploma.	Delegate of Board of Examiners
	Sign diploma (both sides).	Student
	Process graduation file within five workings days (Sharepoint).	Main Mentor
	Maximum one week after P5, upload the final thesis (PDF) and final presentation slides (PDF) to the TU Delft repository.	Student
	Check whether assessment forms are filled in correctly. Undertake action if items are missing; register completion P5.	Education and Student Affairs

P5 responsibilities		
Part	Action	Responsible
<i>Completion</i>	Unsubscribe as TU Delft student, via Studielink Remember to unsubscribe for TU Delft via Studielink in the month of your graduation. You will be unenrolled from the 1st of the next month. If you do not unenrol in time you are required to pay tuition fees for another month. Unenrolling retroactively is not possible. Tuition fee refunds Under certain circumstances the tuition fee can be partly refunded. See website Central Student Administration -	Student
	Register P5 result in Osiris.	Education and Student Administration
	After student uploaded final presentation at TU Delft repository: send diploma supplement to student address.	Education and Student Administration

2.0 Particular circumstances

Quorum at evaluations

A quorum is required for the graduation evaluation to be valid.

Quorum for P2: Main Mentor, Second Mentor and Delegate of the Board of Examiners.

Quorum for P4: Main Mentor, Second Mentor, Co-Reader and Delegate of the Board of Examiners

Quorum for P5: Main Mentor, Second Mentor and Delegate of Board of Examiners.

Absence of the Delegate of Board of Examiners

The Board of examiners appoints Delegates of Board of Examiners and Deputy Delegates for all evaluations. If the Delegate of Board of Examiners will be unable to attend an evaluation, she/he asks the Deputy Delegate of Board of Examiners to replace her/him. The Deputy Delegate of Board of Examiners is registered in the digital graduation registration by the Secretary of the Education and Student Affairs.

Absence of a Mentor

If it is known in advance that a Mentor will be unable to attend, a presentation must be held for that Mentor prior to the evaluation. The assessment and signature of the Mentor concerned must be written down in an extended letter of at least 2 pages with comments and feedback. This letter must be given to the Delegate of the Board of Examiners in a closed envelope. At the appraisal this assessment will be taken into account by the other mentors for determining the final assessment.

At unexpected absence there will be looked by the main mentor and other present mentors for an exam authorized deputy within the same academic field. The Secretariat of the board of Examiners is also informed by the main mentor or external examiner about this absence. The evaluation should preferably be continued and the final assessment should be determined after hearing the absent mentor.

The determination for a GO / NO-GO or the registration of the marks on the final mark lists only take place after consulting the absent Mentor by phone. If this isn't possible final judgement at the P4 is postponed. At the P5 a "pass" is registered for the involved academic field. In both cases a meeting with the absent Main Mentor/Daily Supervisor takes place on the shortest possible term, to determine a final conclusion. At doubt or on request of the student, it may be decided that an extra presentation must be held.

Problems in the appraisal

It may occur that the appraisal does not lead to an assessment. The Delegate of Board of Examiners informs the student on this situation and explains the applied procedure and the corresponding terms. Subsequently he / she collects the presented products and presents the problem to the chairman of the Board of examiners.

The chairman of the Board of examiners will reconvene the mentor team and the Delegate of Board of Examiners for a reappraisal, which he will chair, in which he will attempt to achieve consensus. In case of failing he will make a final decision.

2.1

Special qualifications

*Cum Laude*¹

A student can receive the predicate “cum laude” for the Master’s degree audit if the Board of Examiners decides to grant this distinction and the following requirements have been met:

1. the weighted average of the results of the courses not including the Master final Project is at least 8,0; passes (v) and exemptions (vr) will not be taken into consideration
2. the number of credits for the courses for which a pass (v) has been earned or for which an exemption (vr) has been granted may not exceed 20,0 credits in total
3. the result for the Master final Project is at least 8,0
4. the study duration of the Master does not exceed the nominal period of study plus one semester, taking into account study-delays based on the “Regeling Afstudeersteun Studenten” (Student financial support) is acknowledged.
5. The term mentioned in subsection d is effective for all students having their final presentation on February 1st 2018 or later. Until that date the term is 3 years.

¹The complete system is described in Article 36 of the Rules and Regulations of the Board of Examiners,, Master Geomatics.

*Honourable mention*²

On intercession of the mentor and approval of the Delegate of the Board of Examiners, the predicate “honourable mention” may be attached to the examination result. The condition for this is that the examinee achieved a mark 8,5 or higher for the graduation project.

A student who graduates Cum Laude can not be given a honourable mention.

The student is informed on the honorable mention at the diploma ceremony. The written honorable mention will be handed over to the student within two weeks after the final presentation.

Therefore the mentor must hand in the text for the honourable mention within one week after the P5 at the Secretary of the Board of Examiners.

²The complete system is described in Article 37 of the Rules and Regulations of the Board of Examiners,, Master Geomatics.

Appendix 1

Evaluation criteria

Note: consult your Main Mentor the exact interpretation of the requirements.

P1	P2	P3	P4	P5
Product: <i>Preliminary graduation plan</i>	Product: <i>Final graduation plan</i>	Product: <i>Preliminary products proposed in P2</i>	Product <i>Master's thesis report</i>	Product <i>Final master's thesis report</i>
Research <ul style="list-style-type: none"> ▪ motivation/problem field/ relevance ▪ problem statement ▪ objectives ▪ research questions ▪ theoretical framework ▪ methodology ▪ preliminary project and results ▪ preliminary choice of case 	Research <ul style="list-style-type: none"> ▪ motivation / problem field /relevance ▪ position in the academic and professional debate ▪ problem statement, objectives, research questions, ▪ approach, theoretical framework, methodology ▪ references ▪ preliminary project set up and results 	Research <ul style="list-style-type: none"> ▪ methodology ▪ link theory-design & planning ▪ preliminary conclusions 	Research <ul style="list-style-type: none"> ▪ motivation / problem field / relevance ▪ theoretical framework ▪ methodological framework ▪ analyses, research results ▪ conclusions / recommendations ▪ references 	Research <ul style="list-style-type: none"> ▪ motivation / problem field / relevance ▪ theoretical framework ▪ methodological framework ▪ analyses, research results ▪ conclusions / recommendations ▪ references
	Presentation <ul style="list-style-type: none"> ▪ written, oral, graphics and demo 		Presentation <ul style="list-style-type: none"> ▪ written, oral, graphics and demo 	Presentation <ul style="list-style-type: none"> ▪ written, oral, graphics and demo
Process <ul style="list-style-type: none"> ▪ planning 	Process <ul style="list-style-type: none"> ▪ academic attitude: evidence based, logical, critical ▪ planning 	Process <ul style="list-style-type: none"> ▪ academic attitude: evidence based, logical, critical ▪ planning 	Process <ul style="list-style-type: none"> ▪ academic attitude: evidence based, logical, critical ▪ planning 	Process <ul style="list-style-type: none"> ▪ academic attitude: evidence based, logical, critical
			Project <ul style="list-style-type: none"> ▪ originality and scientific level ▪ professional significance ▪ independence and own initiative ▪ planning and compliance with planning ▪ conducting research ▪ controlling the subject ▪ being able to make assessment 	Project <ul style="list-style-type: none"> ▪ originality and scientific level ▪ professional significance ▪ independence and own initiative ▪ planning and compliance with planning ▪ conducting research ▪ controlling the subject ▪ being able to make assessment ▪ reflection on the value of the graduation research in the larger social and scientific framework

Appendix 2

Content of Graduation plan

Graduation Plan

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

Personal information	
Name	
Student number	
Address	
Postal code	
Place of residence	
Telephone number	
E-mail address	
Graduation committee	
Main mentor	(name and specialisation)
Second Mentor	(idem)
Title	
Title of the graduation research	
Research	
Problem Statement and relevance	
<p>What is the scientific problem that will be solved / investigated? Why is it important? Discuss: the value of the graduation research in the larger social and scientific framework</p>	
Research questions and scope	
<p>Define the main research questions that you plan to answer.</p>	
Background information and related work	
<p>Overview of all topics related to your main research question.</p>	
Methodology	
<p>A description of the methodology you plan to use to answer your research questions.</p>	
Time planning	
<p>A scheme of the division of the workload of the graduation research in the timeframe. The submitted Graduation document might be rejected if the planning is unrealistic.</p>	

Appendix 3

Reflection P5

The reflection is a standard component of a scientific thesis. The reflection is NOT a separate document or a distinct chapter, but integrated in the Introduction and Conclusions of the thesis in the form of text, with diagrams and sketches for purposes of illustration and clarification.

In this reflection the student uses a short substantiated explanation to account for the results of the research in the graduation phase (product, process, planning).

Depending on the research, reflection on a number of the following aspects should be included (you may choose in which order).

Aspect 1

The relationship between the methodical line of approach of the Master Geomatics and the method chosen by the student in this framework.

Aspect 2

The relationship between the conducted research and application of the field geomatics.

Aspect 3

The relationship between the project and the wider social context.

Appendix 4

Reference to official regulations

Subject	Registered at	Article
Graduation work	<i>Teaching and Examination Regulations, Master of Science Geomatics for the Built Environment, 2017-2018.</i>	Article 18, subsection 4
Admission to the graduation phase	<i>Teaching and Examination Regulations, Master of Science Geomatics for the Built Environment, 2017-2018.</i>	Article 18, subsection 5
Graduation annotations (TISD, Entrepreneurship)	<i>Teaching and Examination Regulations, Master of Science Geomatics for the Built Environment, 2017-2018.</i>	Article 27 and Appendix V
Further rules governing Master final Project	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 26
Composition of the assessment committee for Master Thesis Project	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 27
Appointment of delegate of the Board of Examiners	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 5, subsection 4
Language graduation	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 7, subsection 3
Working method of the assessment committee	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 28
Publication graduation work in TU Delft repository	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 21, subsection 5
Possibility for embargo on work in repository	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 21, subsection 6
Official date of Master final project result	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 29
Pass and fail rules	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 32
Pass and fail rules governing the Honours Programme Master	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 33
Pass and fail rules governing annotations	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 34

Subject	Registered at	Article
Conferring the predicate "cum laude"	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 35
Honourable mention	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article 36
Degree certificates, supplement and results achieved	<i>Rules and Guidelines of the Board of Examiners, Master of Science Geomatics for the Built Environment, academic year 2017-2018</i>	Article: 37 en 38

