Geomatics for the Built Environment – Graduation Manual 2018-2019

Graduation Manual

Geomatics

For the Built Environment

Academic year 2018–19



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Reference to official regulations

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Introduction

This manual is based on the official regulations of the graduation process for students in the Master Geomatics 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 is introduced. In the implemented system the students first get the possibility to do the check themselves and they 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 and the appraisal

Section 3 provides information on the 'cum laude' and 'honorable mention' regulations.

The appendices contain more detailed information on several aspects, a.o.: 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 registration of 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 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 course 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	Student	
P1: Progress review	9-10 weeks	Graduation Coordinator (event)	
Product: draft Graduation plan	after P0		
Presentation: 5 minutes			
Questions & Appraisal: 5 minutes			
Submit final Graduation plan to	1 week	Student	
both mentors and the	before P2		
Delegate of the Board of Examiners			
P2: Formal assessment Graduation plan	9-10 weeks	Graduation Coordinator (event)	
Presentation: 15 minutes	after P1		
Questions : 15 minutes			
Closed Appraisal: 15 minutes			
Committee informs student about result			
assessment: passed, restriction, failed			
P3: Colloquium midterm	7-8 weeks	Main Mentor	
Presentation:15 minutes	after P2		
Questions: 15 minutes			
Submit draft thesis to both mentors, the co-	1 week	Student	
reader, and Delegate of the Board of Examiners	before P4		
P4 Formal process assessment	7-8 weeks	Student, Main Mentor	
Presentation: 30 minutes	after P3		
Questions: 15 minutes			
Closed appraisal: 15 minutes			
Committee informs student about result			
assessment: GO/NO-GO			
Submit final thesis to both mentors, and the	1 week	Student	
Delegate of the Board of Examiners	before P5		
P5: Public presentation and final	4-5 weeks	Student, Main Mentor	
assessment	after P4		
Public presentation: 30 minutes			
Questions: 15 minutes			
Closed appraisal: 15 minutes			
Result and graduation ceremony: 30 minutes			

GEO2010	Half year	→	←	Half year	
P0 Start graduation	P1 Progress review Graduation plan	P2 Formal as- sessment Graduation plan*	P3 Colloquium midterm	P4 Formal process as- sessment**	P5 Public presen- tation and final assessment***
* 02.		nt of the Creductie			

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 P0 - Start graduation

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

P0 responsibilities			
Part	Action	Responsible	
Preparation	Register for GEO2010 during education enrollment period.	Student	
	Check whether students meet admission requirements.	Education and Student Affairs	
Introduction	Attend the introduction lecture to the Graduation Project (given twice a year).	Student	
Completion	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

Goal	Assess whether the student's progress guarantees he/she will be	
	able to meet the requirements for the P2 in time.	
Where	Reserved room by Graduation coordinator.	
Structure	Presentation Graduation plan.	
Assessor	Main Mentor,	
	Graduation Coordinator.	
Subjects of assessment	Research and process (see Appendix 1).	
Method of assessment	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.	
Method of assessment	The assessment is registered on the P1 assessment form in the	
registration	digital Graduation Registration (Sharepoint) by the Main Mentor.	
Consequence of	The student proceeds: If necessary the Main Mentor advises the	
Assessment	student about possible improvements.	

P1 responsibilities			
Part	Action	Responsible	
Preparation	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	
At the evaluation	Present draft Graduation plan.	Student	
	Fill in "P1 assessment form" (Sharepoint).	Main Mentor	
Completion	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	

The P2 assessment is essential to get admission to GEO20.			
<i>Goal</i> The base for succesfully passing the P2 should be the be			
	student can graduate within six months.		
Where	Reserved room by Scheduling BK.		
When	During the fixed weeks according to the academic graduation calendar.		
Admission conditions	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.		
Structure	15 minutes presentation;		
	15 minutes questions;		
	15 minutess for appraisal.		
Assessors	Main Mentor,		
	Second Mentor,		
(all required)	Delegate of Board of Examiners.		
Subjects of assessment	Research, Presentation and Process (see Appendix 1)		
Method of assessment	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, re			
	failed.		
Method of assessment	The assessment and conclusion are registered on the P2 assessment		
registration	form in the digital Graduation Registration (Sharepoint) by the Main		
	Mentor.		
Consequence of	If a student passes, the chance to graduate within six months is		
assessment	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.		
	The result "passed" is considered to be an interim examination result		
	and has a validity of 1 year.		
Retake	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, than applies the rule stated under		
	"failed".		

Evaluation 2 P2 – Formal assessment Graduation plan

	P2 responsibilities	
Part	Action	Responsible
Preparation	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 Stu- dent 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 be- fore 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
At the evaluation	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
At the appraisal	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	
Completion	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	

Goal	Determine whether the students progress guarantees he / she will be	
	able to meet on time the requirements for the P4.	
Where	Reserved room by Main Mentor.	
Structure	15 minutes presentation;	
	15 minutes questions.	
Assessors	Main Mentor, Second Mentor (optional).	
Subjects of assessment	Research, Presentation and Process (see Appendix 1).	
Method of assessment	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.	
Method of assessment	The assessment and conclusions are documented on the P3	
registration	assessment form in the digital Graduation Registration (Sharepoint)	
	by the Main Mentor.	
Consequence of	This is not a formal assessment, it is used as an indicator for the	
assessment	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.	

Evaluation 3 P3 - Colloquium midterm

P3 responsibilities			
Part	Action	Responsible	
Preparation	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)	
At the evaluation	Present graduation plan and graduation project.	Student (See appendix 1 for exact description of required products for this evaluation)	
Completion	Fill in the P3 assessment form (Sharepoint). Determine conclusion: YES – student made enough pro- gress to register for P4. NO – student didn't make enough progress for P4.	Main Mentor	

	P3 responsibilities	
Part	Action	Responsible
Completion	Inform the student of assessment; advice on progress.	Main Mentor
	Send the digital asessment 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

Goal	Determine whether the content of the research and the presentation
Guai	meets the requirements to admit the student to the final public
	presentation (P5).
Whare	
Where	Reserved room by Scheduling BK.
When	During fixed weeks according to the academic graduation calendar.
Admission requirements	Student has obtained all educational components with exception from
	P4 and P5 assessment by application for P4 assessment.
Structure	30 minutes presentation;
	15 minutes questions;
	15 minutes closed deliberation committee;
	Committee informs student about result: GO/NO-GO.
Assessors	Main Mentor,
(all required)	Second Mentor,
	Co-reader,
	Delegate of Board of Examiners.
Subjects of assessment	Research, Presentation, Process and Project (see Appendix 1 and 5).
Method of assessment	Assessment is based on the P4 assessment criteria and
	also student thesis is checked on plagiarism
	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.
How is the assessment	The assessment and conclusion are registered on the P4 assessment
registered	form in the digital Graduation Registration (Sharepoint).
Consequence of	At result "GO" the student proceeds to the P5; At result "NO GO" the
assessment	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.
Retake	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 councellors needs to be
	made.

Evaluation 4 P4 - Formal process assessment

	P4 responsibilities	
Part	Action	Responsible
Preparation	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 Stu- dent Affairs
	Check whether student meets the admission requirements.	Education & Student Admin- istration
	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
Preparation	Check thesis on plagiarism by uploading thesis in available Brightspace course. See appendix 3	Student
	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)
At the evaluation	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
	Give feedback on result plagiarism scan outcome.	Main mentor
	Assess academic level of students' presentation and questions of the mentors.	Delegate of Board of Examiners
At the closed appraisal	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
Completion	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

Goal	Public presentation and final assessment.
Where	Reserved room by Scheduling BK.
When	During fixed weeks according to the academic graduation calendar.
Structure	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.
Assessors	Main Mentor,
	Second Mentor,
(all required)	Delegate of Board of Examiners.
Subjects of assessment	Research, Presentation, Process and Project (see Appendix 1).
Method of assessment	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%).
How the assessment is	The assessment and conclusions are registered on the P5
registered	assessment form in the digital Graduation Registration (Sharepoint).
Consequence of	All criteria should be awarded with at least 6.0 and the end mark
assessment	should also be at least 6.0. Student graduates and receives
	subsequently his / her Master's degree diploma.

Evaluation 5 P5 - Public presentation and final assessment

	P5 responsibilities	
Part	Action	Responsible
Preparation	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, proce- dure and P5 obligations.	Secretary Eduction and Stu- dentaffairs
	Schedule P5.	Scheduling BK
	Print student's blanc P5 mark list.	Secretary Eduction and Stu- dentaffairs
	Collect the diploma and blank mark list at Education- & Student Affairs on P5 day.	Delegate of Board of Examiners

	P5 responsibilities	
Part	Action	Responsible
Preparation	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)
At the evaluation	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
At the closed appraisal	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
Completion	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 Hand out diploma.	Main Mentor Delegate of Board of Examiners
	Sign diploma (both sides).	Student
	Process graduation file within five workings days (Sharepoint).	Main Mentor
	Maximum one day 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.	Eduction and Student Affairs

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	P5 responsibilities	
Part	Action	Responsible
Completion	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 un- enrol in time you are required to pay tuition fees for another month. Unrolling retroactively is not possible. Tuition fee refunds Under certain circumstances, the tu- ition fee can be partly refunded. See website <u>Central Student Administra- tion</u> -	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. Quorom 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

Known in advance

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 with comments and feedback. This letter must be given to the Delegate of the Board of Examiners in a closed envelope or send by email. At the appraisal this assessment will be taken into account by the other mentors for determining the final assessment.

Unexpected absence

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 delegate of the board of examiners about this absence. The evaluation should preferabily be continued and the final assessment should be determind after hearing the absent mentor.

The determination for a GO / NO-GO (P4) or the registration of the marks on the final mark lists (P5) 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 Laude¹

A student can receive the predicate "cum laude" for the Master's degree audit if the Board of Ex-aminers 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
- the study duration of the Master does not exceeded 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 1th 2018 or later. Untill that date the term is 3 years.

¹The complete system is described in Article 32 of the Rules and Regulations of the Board of Examiners,, Master Geomatics.

Honourable mention²

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 honorouble mention will be handed over to the student within two weeks afters the final presentation.

Therefor 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 33 of the Rules and Regulations of the Board of Examiners,, Master Geomatics.

Evaluation criteria

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

P1	P2	P3	P4	P5
Product: Preliminary graduation plan	Product: Final graduation plan	Product: Preliminary products proposed in P2	Product Master's thesis report	Product Final master's thesis report
Research • motivation/problem field/ relevance • problem statement • objectives • research questions • theoretical framework • methodology • preliminary project and results • preliminary choice of case	 Research 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 methodology link theory-design & planning preliminary conclusions	 Research motivation / problem field / relevance theoretical framework methodological framework analyses, research results conclusions / recommendations references 	 Research motivation / problem field / relevance theoretical framework methodological framework analyses, research results conclusions / recom- mendations references
	 Presentation written, oral, graphics and demo 		Presentation written, oral, graphics and demo	 Presentation written, oral, graphics and demo
Process planning 	 Process academic attitude: evidence based, logical, critical planning 	 Process academic attitude: evidence based, logical, critical planning 	 Process academic attitude: evidence based, logical, critical planning 	 Process academic attitude: evidence based, logical, critical
			 Project 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 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 valua of the graduation research in the larger social and scientific framework

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 rele	evance
	nat will be solved / investigated? Why is it important?
Discuss: the value of the gradua	ation research in the larger social and scientific framework
Research questions and sco	
Define the main research quest	ions that you plan to answer.
Background information an	d related work
Overview of all topics related to	your main research question.
Methodology	
A description of the methodolog	yy you planto use to answer your research questions.
Time planning	workload of the graduation recearch in the timeframe. The submitted
	workload of the graduation research in the timeframe. The submitted rejected if the planning is unrealistic.

A format for the Graduation plan is available on-line, see: Graduation Plan.

Plagiarism scan P4

The Plagiarism Scan on the Graduation documents is implemented for all Master Architecture, Urbanism and Building Sciences students (all tracks, with exception from Architecture) and Master Geomatics students.

The Plagiarism Scan has been integrated in Brightspace (see: https://bright-

<u>space.tudelft.nl/d2l/home/47493</u>) and is used to guarantee the authenticity of student's graduation work at the Faculty of Architecture and the Built Environment. The TurnItIn tool in Brightspace is used for this purpose. The tool will make it easier for the student and mentors to check the work of a student on originality and plagiarism. It is the responsibility of the main mentor to discuss the TurnIt-In Plagiarism report of his/her student at his/her P4.

Each student will upload his or her thesis, report or other graduation work with text at latest one week before the P4 presentation. The mentors and delegates will be enrolled by Education and Student Affairs in the Plagiarism Brightspace course.

The student has the possibility to upload provisional versions of his document as often as he/she wants for plagiarism feedback. This feedback is only meant for the student. <u>The submissions and results in the</u> 'Provisional Version' folder are there just for the student to try things out.

The final version of the P4 document will be submitted in the final version folder of the plagiarism scan. The final submission folder will only allow one submission for each student and the plagiarism feedback will only be visible for mentors. The student will not be able to see his/her score.

After admission to the P4 the student receives detailed instructions by email about how does the Plagiarism Scan works.

Assessment of result

It is the responsibility of the main mentor to determine whether the results of the plagiarism scan in the final folder are an indication of actual plagiarism. In all cases, suspicion of plagiarism or not, the mentor should share the findings with the student, the other mentors and the delegate at the P4 assessment.

If there is a suspicion of intentional plagiarism, the mentor should discuss this with the student and notify the Board of Examiners afterwards.

About Turnit-In:

TurnItIn has certain limitations concerning the documents which will be uploaded. The students will be informed about the limitations, the meaning of similarity scores and plagiarism in general.

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.

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		10	6	••	7	9
Kesearch motivation/problem definition	2%	Excellent motivation. The complexity of the problem is very well understood to the details and addressed	Very good motivation. The complexity of the problem is well understood and addressed	Good motivation. The complexity of the problem is fully taken into consideration	Adequate motivation. The complexity of the problem is only partially taken into consideration	Just adequate motivation. The complexity of the problem not fully taken into consideration
theoretical framework	10%	Has independently developed a new piece of theory	Has independently collected, processed and integrated theory from different fields or sources and independently applied theory to the performed research	Understands and can reproduce directly relevant theory at the level of MSC techbods, scientific literature and applied theory to the performed research	Understands and can reproduce discript relevant theory at the level of MSc tectbods and is able to apply this theory to the performed research, after being shown how to do so	Understands and can reproduce directly relevant theory at the level of MSC tectbook, but has difficulties applying theory to performed research
analysis, research results	15%	Has produced new knowledge and/or methods, not previously available in the world.	Has produced new knowledge and/or methods not previously available in the group	Has well extended existing knowledge and/or methods, not previously available in the field	Has sufficiently extended existing knowledge, data or methods available in the field	Has only verified knowledge, data and/or methods available in de field
conclusion recommendation	15%	Perfectly structured scientific conclusions and judgement of own results. Recommendations are specialists. Recommendations are towards new directions not available in the world	Very well balanced scientific very well balanced scientific own results, literature and own results, Recommendations are good and sound	Good scientific conclusions and judgement or own results, literature and specialists. Recommendations are good and	Sufficient scientific conclusion and judgement of own results, limited critical attitudes towards litherature and towards litherature specialists. Recommendations are adequate	Limited scientific conclusions and judgement of own results. Recommendations are just adequate
references Drecentation	5%	Sources of information are fully dear and elaborated and used fully consistently and conscientiously	Sources of information and scientific references are elaborated and used with care.	Sources of information and scientific references are clear and used in a consistent manner	Sources of information and scientific references are provided but not in a adequate way	Sources of information and scientific references are provided but are not complete
written report	28	Written report has perfect structure, consistency and clarify. No corrections needed to be appointed out by supervisors	Written report has a very good structure, consistency and clarity. Virtually no corrections needed to be appointed out by supervisors	Written report has good structure, consistency and clarify. limited corrections needed to be appointed out by supervisors	Written report has adequate structure, consistency and clarity. Important corrections needed to be appointed out by supervisors	Written report has just right with structure, consistency and clarify. Significant corrections needed to be appointed out by supervisors
oral (answering questions)	10%	Eccellent and persuasive speaker. Answers questions perfectly to the point and with depth	Very good and persuasive speaker. Answers questions very well. Answers sound and well explained	Good speaker, give a clear presentation. Answers questions well. Answers are correct	Adequate speaker. Can answer questions. Not all answers are good	As a speaker just adequate. Has difficulties answering questions
graphics and demo presentation	% %	Excellent presentation material. Makes use of all possibilities	Very good presentation material. Makes use of possibilities	Good presentation material. Appropriate demos	Adequate presentation material. No specific demos	Presentation material just adequate
originality and scientific level	8	Has surprised us all with some brilliant new ideas	Has had several original ideas not initiated or thought of by the supervisor	Has had at least one original contribution to the project not initiated or thought of by the supervisor	Has made a partial original contribution to the project	Has made a contribution to the project, but not really original
independence and own initiative, planning	¥	The student proactively initiated (new) methods and approaches. Has complete autonomy	Methods and approaches were essentially selected by the student. Very good planning	Significant own initiative and input into methods and approaches. Good planning	Took occasionally initiative to extend and modify methods and approaches suggested by the supervisor(s). Adequate planning	Showed little initiative and executed methods and approaches suggested by the supervisor(s). Difficulties with planning
Process	15%					
skills, academic attitude	8	Exceptional analytical, logical and integration skills, actively aceking for feedback to improve him/ herself	Very good analytical, logical and integration skills, uses feedback to improve him/ herself	Good analytical, logical and integration skills, can handle feedback in a positive way	Sufficient on analytical, logical and integration skills, responds to feedback, but can get demotivated by feedback	Just sufficient analytical, logical and integration skills, responds to feedback in a defensive way, or gets demotivated by feedback
reflection	×	is good in self-reflection and steers the project, based on own insights and sought after advice from others	is good in self-reflection and takes the right decisions based on own insights and sought after advice from others	Good balance between independent opinion, self- reflection and openness to advise and feedback from specialist	Sufficient level of self- reflection, but could be more open to advise and feedback	Just sufficient level of self- reflection, but should be more open to advise and feedback
						2018-02-12

Reference to official regulations

Subject	Registered at	Article
Graduation work	Teaching and Examination Regulations, Master of Science Geomatics for the Built	Article 7, subsection 4
	Environment, 2018-2019.	
Admission to the graduation phase	Teaching and Examination Regulations,	Article 7, subsection 5
	aster of Science Geomatics for the Built	
	Environment, 2018-2019.	
Graduation annotations (TiSD,	Teaching and Examination Regulations,	Article 15 and
Entrepreneurship)	aster of Science Geomatics for the Built	Appendix VI
	Environment, 2018-2019.	
Further rules governing Master final Project	Rules and Guidelines of the Board of	Article 23
	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Composition of the assessment	Rules and Guidelines of the Board of	Article 24
commit-tee for Master Thesis	Examiners, Master of Science Geomatics for the	
Project	Built Environment, academic year 2018-2019	
Appointment of delegate of the	Rules and Guidelines of the Board of	Article 5, subsection 4
Board of Examiners	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Language graduation	Rules and Guidelines of the Board of	Article 7, subsection 3
	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Working method of the assessment	Rules and Guidelines of the Board of	Article 25
committee	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Publication graduation work in TU	Rules and Guidelines of the Board of	Article 18, subsection 5
Delft repository	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Possibility for embargo on work in	Rules and Guidelines of the Board of	Article 19, subsection 6
repository	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Official date of Master final	Rules and Guidelines of the Board of	Article 26
project result	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Pass and fail rules	Rules and Guidelines of the Board of	Article 29
	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Pass and fail rules governing the	Rules and Guidelines of the Board of	Article 30
Hon-ours Programme Master	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Pass and fail rules governing annotations	Rules and Guidelines of the Board of	Article 31
	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Conferring the predicate "cum laude"	Rules and Guidelines of the Board of	Article 32
	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Honourable mention	Rules and Guidelines of the Board of	Article 33
	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	
Degree certificates, supplement and	Rules and Guidelines of the Board of	Article: 34 en 35
results achieved	Examiners, Master of Science Geomatics for the	
	Built Environment, academic year 2018-2019	

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