Master Geomatics – Graduation Manual 2022-2023

Graduation Manual

Master Geomatics

Academic year 2022–2023



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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, coreaders, 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.

This manual is part of the official regulations and is provided at the start of the semester to all students who enrolled for GEO2011.

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 'honourable mention' regulations.

The appendices contain more detailed information on several aspects, 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.

A digital graduation registration is used. All involved teachers have access to the information in the Share-Point 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 GEO2011 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 first mentor is responsible for completing the digital assessment registration.

1.0 Graduation process

1.1 Admission

Students who enter the graduation programme should have completed at least nine of the ten 5 EC core courses and two electives of 5EC. You start the graduation programme with registration (P1).

1.2 Evaluations

During three formal assessments (P2, P4 and P5) your mentors will evaluate your progress in the presence of a delegate of the Board of Examiners. The evaluations take place within the assigned periods, indicated in the academic graduation calendar. The P2, P4 and P5 have to take place within the venue of the Faculty of Architecture and the Built Environment, or will be held online if it is not allowed to meet on campus.

What	When	Responsible
P1: Registration of topics/mentors - Product: topic, mentors, summary of problem to solve and objectives	9-10 weeks after official start semester	Graduation Coordinator
Submit final graduation plan to both mentors and the delegate of the Board of Examiners	1 week before P2	Student
 P2: Graduation plan (formal assessment) Presentation: 15 minutes Questions : 15 minutes Closed Appraisal: 15 minutes Committee informs student about result assessment: passed, failed, or retake 	9-10 weeks after P1	Graduation Coordinator
 P3: Midterm progress meeting Free-form, to be decided by mentors and student dent 	~7-8 weeks after P2	First Mentor
Submit draft thesis to both mentors, the co- reader, and delegate of the Board of Examiners	1 week before P4	Student
 P4: Go/no-go (formal assessment) Assessment meeting with mentors, student, and delegate of Board of Examiners 45 minute meeting where decision is made whether student can defend within 1 month Student is informed about result assessment: go, or no-go 	~7-8 weeks after P3	Student, First Mentor

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What	When	Responsible
Submit final thesis to both mentors, the co- reader, and the delegate of the Board of Examin- ers	1 week before P5	Student
P5: Public presentation and final assess- ment (formal assessment) - Public presentation: 30 minutes	4-5 weeks after P4	Student, First Mentor
 Questions: 15 minutes Closed appraisal: 15 minutes Result and graduation ceremony: 15 minutes 		

4	Semester 1 (GEO2011)	 GEO2020	nester 2 (GEO2020))≯
P1 Start grad uation	- P2 Formal as- sessment: plan*	P3 Mid-term progress meeting	P4 Formal assessment: go/no-go**	P5 Public presen- tation and final assessment***

* 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

First Mentor (Daily mentor)

The first mentor is a scientific staff member of one of the groups involved in the MSc Geomatics programme.

They are responsible for the overall graduation project and are an expert in the field of the graduation project. They are involved in all evaluations and take care of the registration of all assessments in Sharepoint (the registration system).

Second mentor

The second mentor is a scientific staff member of the TU Delft whose expertise complements that of the first mentor. If the first 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 scientific staff member of the TU Delft or employee of another university, who is an expert in the field of the graduation project. Their first task is to assess the quality of the student's work in an unbiased way. The co-reader contributes to the final mark given to the student (at P5), and can help improve the final thesis by providing feedback at the P4. Preferably, they are not part of the same group(s) as the first and second mentors belong to. The co-reader is chosen by the mentors in collaboration with the student.

Delegate of the Board of Examiners (BE)

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

1.4 Detailed scheme per evaluation

Evaluation 1 P1- Progress review Graduation plan

Goal	Ensure that the student has picked a topic, two mentors, and has an		
	overview of what will need to be carried out.		
Structure	Registration of necessary text in the system of GEO2020 website.		

P1 responsibilities				
Part	Action	Responsible		
Task	Setup the system to register the topics and summaries	Graduation coordinator		
	Register asked information before the deadline	Student		

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	The P2 assessment is essential to get admission to GEO2020.
Goal	Mentors assess whether the student can graduate with the topic
	within 6 months.
Where	Reserved room by Scheduling BK or online meeting if no activities at
	BK allowed.
When	During the fixed weeks according to the academic graduation calen-
	dar.
Admission conditions	The enrolment for the P2 evaluation is only possible if the student has
	obtained all credits (EC) of the core courses of the first year with the
	exception of 1 core course (5 EC) maximum and also completed the 2
	elective courses of 5EC.
Structure	For the student 15 minutes preparation is scheduled, followed by:
	15 minutes presentation;
	15 minutes questions;
	15 minutes for appraisal and communicating the result to the stu-
	dent.
Quorum	First and second mentors
	Delegate of the Board of Examiners
Chairperson	Delegate of the Board of Examiners
Assessors (all required)	First and second mentor
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 first 2 are a "pass", the last one a "fail".
	The mentors give the student a final conclusion: passed, failed, or
	retake.
Method of assessment	The assessment and the result are registered in the P2 assessment
registration	form in Sharepoint by the first mentor.
Consequence of	Result "Passed" means the student is able to finish the graduation
assessment	-
assess111e111	project within 6 months, and is registered for GEO2020. The result "Passed" is an interim examination result with a validity of
	one year. The Board of examiners can decide to extend this validity
	upon request form the student and/or supervisors.
	Result "Failed" means the student does the P2 again, in the next P2
	period at the earliest (new registration required).
Detelie	Result "Retake" means the student does again P2 within four weeks.
Retake	In case of a "Retake" the assessors are convinced that a realistic
	chance exists the student will be able to pass in 4 weeks. Specific
	improvement points are described in the assessment form.
	The first mentor and the delegate of the Board of Examiners must
	agree on a date and time for the retake with the student. If the
	mentors and delegate are not satisfied with the results after the re-
	take, a "Failed" is given. Under special circumstances an extra P2
	moment can be set-up with the agreement of supervisors and the
	MSc thesis coordinator.

Evaluation 2 P2 – Formal assessment: Graduation plan

	P2 responsibilities	
Part	Action	Responsible
Preparation	Schedule day and time and inform student, first 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.	Student Administration (SPA- BK)
	Inform student by E-mail on result admission assessment.	Board of Examiners
	Allocate delegate of the Board of Ex- aminers and register in Sharepoint.	Secretary Education and Stu- dent Affairs (authorized by the board of examiners)
	Write a Graduation Plan (use tem- plate, see Appendix 2).	Student
	Schedule P2 for admitted students; scheduled presentations will be part of the course BK-P2 and also the in- dividual Staff Members timetables on My Timetable	Scheduling department
	Hand in the graduation plan to the mentors and to the Secretariat of the Board of Examiners (Exa- mencommissie-BK@tudelft.nl) at least one week before P2.	Student
	Read and assess the graduation plan.	Mentors and Delegate of the Board of Examiners
	15 minutes before session, ensure computer and slides are working.	Student
At the evaluation	Chairperson.	Delegate of the Board of Ex- aminers
	Present graduation plan, draft re- search results and draft of gradua- tion project.	Student (See appendix 1 and 2 for exact products for this evaluation)
	Ask questions.	Both mentors
	Evaluate academic level of student's presentation and the answers to the mentors' questions.	Both mentors
At the closed appraisal	Act as chairperson	Delegate of the Board of Ex- aminers
	Determine final decision	All mentors
	Document the assessment and con- clusion on the P2 Assessment form in SharePoint	First mentor

P2 responsibilities					
Part	Action	Responsible			
Completion	Inform the student of final decision. Make arrangements for retake if ap- plicable.	First mentor			
	Complete assessment form with own notes within two workings days	Second mentor and Delegate of the Board of Examiners.			
	Check P2 assessment form on com- pleteness and send it to the student by E-mail, using the button on the Assessment form within five work- ings days.	First mentor			
	Check whether forms are all present and filled in correctly. Undertake ac- tion if items are missing; register completion.	Education and Student Affairs			
	Register P2 completion date in Osi- ris.	Student Administration (SPA- BK)			

Goal	Determine whether the student's progress indicates they should be able to meet on time the requirements for the P4.
Where	Reserved room by first mentor or online if meetings at BK are not al- lowed due to Covid 19 measures.
Structure	Meeting
Assessors	First mentor, and second mentor is optional.
Subjects of assessment	Research, Presentation and Process (see Appendix 1).
Method of assessment	The first mentor gives the student a positive or negative indication concerning their progress.
Method of assessment registration	The assessment and conclusions are documented on the P3 assessment form in Sharepoint by the first mentor.
<i>Consequence of assess- ment</i>	This is not a formal assessment, it is used as an indicator for the stu- dent to know if they are on track. Regardless of the outcome of the assessment, the student proceeds. If necessary, the first mentor ad- vises the student about possible improvements.

Evaluation 3 P3 – Progress meeting

	P3 responsibilities	
Part	Action	Responsible
Preparation	Schedule day, time and location and inform student and sec- ond mentor.	First mentor
	Register scheduled date in digital graduation registration.	First mentor
At the meeting	Give feedback on students' progress by first mentor and ask for specific feedback by student.	First mentor, student
Completion	Fill in the P3 assessment form (Sharepoint). Determine conclusion: On schedule or Not on schedule.	First mentor
	Inform the student of assessment; advice on progress.	First mentor
	Send the digital assessment form to the student, within 2 days after P3. Register P4 date, preferred time (morning, afternoon, evening) in the Student Progress Overview in the Graduation Registration (Share- point).	First mentor
	Before registering the P4 date check availability of second mentor and delegate Board of Examiners.	First mentor

Goal	Determine whether the content of the research meets the require- ments to admit the student to the final public presentation (P5).
Where	Reserved room by Scheduling BK or online if this activity at BK is not allowed.
When	During fixed weeks according to the academic graduation calendar.
Admission requirements	Student has obtained all educational components of the Master Geo- matics programme with exception from GEO2020 before the final reg- istration date for the P4 presentation.
Structure	 Meeting with mentors and student, delegate is present to chair the meeting. The co-reader does deliver feedback on the report before the P4 to the main mentor who can bring this forward in the meeting with the student. If the student has agreed on beforehand with the first mentor a presentation of 10 minutes is allowed. 30 minutes discussion with and asking questions to the student by the mentors on the draft thesis; 15 minutes closed appraisal by committee and committee informs student on the result: GO / No-go.
Quorum	First mentor Second mentor Delegate of the Board of Examiners
Chairperson	Delegate of the Board of Examiners.
Assessors	First mentor
	Second mentor
Subjects of assessment	Research, Presentation, Process and Project (see Appendix 1 and 5).
Method of assessment	Assessment is based on the P4 assessment criteria The mentors give the student a good (+), sufficient (0) or negative (-) indication for each aspect. Finally, the mentors give the student a pos- itive (Go) or negative (No-go) judgement on the graduation project.
How is the assessment registered	The assessment and final decisions are registered in Sharepoint.
Consequence of	With a "Go" the student proceeds to P5.
Assessment	With a "No-go" the student has to register for a new P4 in the next period (retake P4).
Retake	At result "No-go" the retake will be held in the next P4 period. An appointment must be made with the first mentor. If the retake also results in "No-go", an appointment with the study counsellors needs to be made.

Evaluation 4 P4 - Go/no-go (formal assessment)

	P4 responsibilities	
Part	Action	Responsible
Preparation	Fill in the P4 application form and collect signatures from the two mentors and the delegate. P4 application form can be handed in digital and instead of signatures also E-mail confirmations from dele- gate and mentors are sufficient.	Student
	Deliver P4 form to Secretariat Edu- cation and Student Affairs or digital to BoardofExaminers-BK@tudelft.nl	Student
	Determine who will be the co-reader and register in graduation admin- istration.	Graduation coordinator
	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.	Student Administration (SPA- BK) on behalf of the Board of Examiners
	Schedule P4 day, time and location. Scheduled meetings will be part of the course BK-P4 and also the indi- vidual Staff Members timetables on My Timetable	Scheduling BK
	Upload thesis in Brightspace course "plagiarism check" and send draft thesis to mentors, delegate and co- reader.	Student
	Deliver written feedback on the the- sis before the P4 to the main men- tor.	Co-reader
	Assess result of Turn-it In similarity report in Brightspace on students' thesis.	First mentor
At the evaluation	Chairperson	Delegate of the Board of Exam- iners
	Defend and explain the results, choices and process in discussion between mentors and the student.	Student and mentors (See Appendix 1 for exact description of the products for this evaluation)
At the closed appraisal	Chairperson	Delegate of Board of Examiners
	Determine final assessment. Determine if the student must be advised to consult an academic counsellor.	Both mentors Both mentors and delegate of Board of Examiners
	Document the assessment and con- clusion in SharePoint.	First mentor

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	P4 responsibilities	
Part	Action	Responsible
Completion	Process graduation document within five workings days (Sharepoint) and send it to student by E-mail, using the button on the assessment form. Check whether forms are filled in	First mentor Education & Student Affairs
	correctly. Undertake action if items are missing.	
	Register P4 completion in Osiris.	Student Administration (SPA- BK)

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.
Quorum	First mentor
	Second mentor
	Co-reader
	Delegate of the Board of Examiners.
Chairperson	Delegate of the Board of Examiners.
Assessors	First mentor
	Second mentor
	Co-reader
Subjects of assessment	Subjects of assessment are specified in the GM master thesis Rubric (see Appendix 5).
Method of assessment	For the assessment of the research four components are assessed (see Appendix 1 Evaluation criteria). The components and their weights are: 1. Research (50%);
	 Presentation and answers on questions (20%); Project (15%); Process (15%).
	Both mentors give a mark for all components. The co-reader only gives a mark for the 'Research' and 'Presentation and questions' components.
	All criteria should be awarded with at least 6,0 and also the final mark is at least a 6,0.
How the assessment is registered	The assessment and conclusions are registered on the <u>P5 assessment form</u> in the digital Graduation Registration (Sharepoint).
Consequence of assessment	Student graduates and receives subsequently their Master's degree diploma.

	P5 responsibilities	
Part	Action	Responsible
Preparation	Register a preferred P5 date, in the P5 period according to the gradua- tion calendar, in the digital registra- tion (at P4 assessment form).	First mentor
	Check whether student meets the admission requirements. If yes de- liver diploma to Education- & Stu- dent Affairs BK.	Education and Student Admin- istration and Central Student Administration.
	Inform student on admission, proce- dure and P5 obligations.	Secretary Education and Stu- dent affairs
	Schedule P5. Print student's blank P5 mark list.	Scheduling BK Secretary Education and Stu- dent affairs
	Collect the diploma and blank mark list at Education- & Student Affairs on P5 day, if P5 is NOT online.	Delegate of Board of Examin- ers
	Send a PDF of the final thesis to the 2 mentors, the co-reader, and the delegate.	Student
	Check thesis for plagiarism by up- loading thesis in available Bright- space course. See Appendix 3	Student
	Check outcome of plagiarism check on students' graduation report	First mentor
	Send preliminary evaluation of the graduation work including the proposed marks to the Delegate at latest 1 day before P5.	First mentor, Second mentor, Co-reader
	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 chairperson.	Delegate of Board of Examin- ers
	Present research results.	Student (See appendix 1 for exact definition for required products for this evaluation)
	Ask questions.	In that order: (1) co-reader; (2) 2 nd mentor; (3) 1 st mentor.
	Assess questions of examiners.	Delegate of Board of Examiners

	P5 responsibilities	
Part	Action	Responsible
At the closed appraisal	Act as chairperson	Delegate of the Board of Exam- iners
	Give a mark for the 'Research' and 'Presentation and questions' components.	Co-reader.
	Determine the marks for all 4 criteria (see rubric) and the end mark. Each assessor must mark indi- vidually and the average of those marks per criteria is the fi- nal mark for that criteria.	First mentor, second mentor
	Determine the final end mark: is the weighted average of the 4 criteria marks (see rubric)	Mentor team with approval of delegate of Board of Examiners
	Register all marks on the P5 as- sessment form in Sharepoint and on the printed P5 mark form.	First mentor
	Open diploma envelop and check if student meets cum laude criteria.	Delegate of Board of Examiners
Completion	Welcome student and public to diploma ceremony and explain procedure.	Delegate of Board of Examiners
	Inform the student and audience about the final result (no marks).	First mentor
	Hand out the envelop with the P5 mark list to student.	First mentor
	Hand out diploma.	Delegate of Board of Examiners
	Sign diploma (both sides).	Student
	Process graduation file (register marks and feedback) within five workings days (Sharepoint).	First mentor
	Maximum one day after P5, up- load the final thesis (PDF) and final presentation slides (PDF) to the TU Delft repository. Be aware: the education pro- gramme should be "Geomatics"	Student

	P5 responsibilities	
Part	Action	Responsible
Completion	Check whether assessment forms are filled in correctly. Un- dertake action if items are miss- ing; register completion P5. Unsubscribe as TU Delft student, via Studielink Remember to unsubscribe from TU Delft via Studielink in the month of your gradua- tion. You will be unenrolled from the 1st of the next month. If you do not unen- roll in time you are required to pay tuition fees for an- other month. Unenrolling retroactively is not possible. Tuition fee refunds Under certain circumstances the tuition fee can be partly re- funded. See website <u>Contact</u> <u>Centre</u>	Education and Student Affairs Student
	Register P5 result in Osiris.	Student Administration (SPA-BK)
	Check uploaded files in TU Delft repository	Graduation coordinator GM
	Send diploma supplement to student address.	Student Administration (SPA-BK)

2.0 Particular circumstances

Quorum at evaluations

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

- Quorum for P2: First mentor, second mentor, and delegate of the Board of Examiners.
- Quorum for P4: First mentor, second mentor, and delegate of the Board of Examiners
- Quorum for P5: First mentor, second mentor, co-reader, and delegate of the Board of Examiners.

Absence of the Delegate of the Board of Examiners

The Board of examiners appoints delegates of the Board of Examiners and deputy delegates for all evaluations. If the Delegate of Board of Examiners is unable to attend an evaluation, they ask the deputy delegate of the Board of Examiners to replace them. The deputy delegate of the 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 or the co-reader will be unable to attend, a presentation must be held for that assessor prior to the evaluation. The assessment and signature of the assessor 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 sent by E-mail. At the appraisal, this assessment will be taken into account by the other mentors for determining the final assessment. Unexpected absence

In case of an unexpected absence there, a replacement must be sought. The Secretariat of the Board of Examiners is also informed by the delegate of the Board of Examiners about this absence. The evaluation should preferably be continued and the final assessment should be determined after he absent mentor has been contacted.

The determination for a Go / No-go (P4) or the registration of the marks on the final mark lists (P5) only takes place after consulting the absent assessor. If this isn't possible, final judgement at the P4 is post-poned. At the P5 a "pass" is registered for the involved academic field. In both cases a meeting with the absent First mentor 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.

Difficulties at 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, they collect the presented products and present the problem to the chairperson of the Board of examiners.

The Board of examiners will reconvene the assessor team and the delegate of Board of Examiners for a reappraisal, which will be chaired by a member of the Board of Examiners. In this re-appraisal they will attempt to achieve consensus. In case of failing the member of the Board of Examiners will make a final decision.

Special qualifications

Cum Laude¹

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 8,5
- 4. the study duration of the Master does not exceeded the nominal period of study plus one se-mester, taking into account study-delays based on the Delft Profiling Fund Regulations.

¹The complete system is described in Article 2.31 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 some outstanding result within the graduation phase or the student has delivered a special or exceptional performance.

Already at the P4 the graduation committee of the students determines if the student is nominated for an honourable mention. Within a week after the P4 the main mentor hands in the text for the honour-able mention at the secretariat of the Board of Examiners. After the text is printed on the TU Delft paper the main mentor and secretary of the Board of Examiners will sign the honourable mention.

The student will only be informed on the Honourable Mention at the diploma ceremony. The written Honourable Mention will be handed over to the student together with the P5 mark list. In case of particular circumstances or exceptional characteristic an Honourable Mention is only possible

after agreement from the Board of Examiners. ²The complete system is described in Article 2.32 of the Rules and Regulations of the Board of Examiners,, Master Geomatics.

2.1

Evaluation criteria

Note: consult your first mentor for 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 • problem statement • objectives • short methodology	 Research motivation / problem field /relevance position in the aca- demic and profes- sional debate problem statement, objectives, research questions, approach, theoretical framework, method- ology references preliminary project set up and results 	 Research methodology link theory-design & planning preliminary conclusions 	 Research motivation / problem field / relevance theoretical frame- work methodological framework analyses, research results conclusions / recom- mendations references 	 Research motivation / problem field / relevance theoretical frame- work 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	 Presentation written, oral, graphics and demo
<i>Process</i> ▪ planning	 Process academic attitude: evidence based, logi- cal, critical planning 	 Process academic attitude: evidence based, logi- cal, critical planning 	 Process academic attitude: evidence based, logi- cal, critical planning 	 Process academic attitude: evidence based, log- ical, 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 value of the graduation research in the larger social and scientific framework

Format Graduation plan

Front page Graduation Plan

Title graduation project YOUR NAME student #123456 <u>y.name@tudelft.nl</u>

1st mentor: Jan Smit 2nd mentor: Gerard Joling Date P2: 2019–09–23

Content Graduation Plan

1 Introduction

An introduction in which the relevance of the project and its place in the context of geomatics is described, along with a clearly-defined problem statement.

2 Related work

A related work section in which the relevant literature is presented and linked to the project.

3 Research questions

The research questions are clearly defined, along with the scope (ie what you will not be doing).

4 Methodology

Overview of the methodology to be used.

5 Time planning

Having a Gantt chart is probably a better idea then just a list.

6 Tools and datasets used

Since specific data and tools have to be used, it's good to present these concretely, so that the mentors know that you have a grasp of all aspects of the project.

Link to the digital version: https://3d.bk.tudelft.nl/courses/geo2020/templates/

Plagiarism scan P4 and P5

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 Ouriginal 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 Ouriginal Plagiarism report of his/her student at his/her P4.

Each student will upload his or her Master thesis report at latest one week before the P4 meeting and also before the P5 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 and P5 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 E-mail about how does the Plagiarism Scan works.

Assessment of result

It is the responsibility of the first 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 or in case of the P5 before the P5 date.

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

About Ouriginal:

Ouriginal 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.

(the PDF of the rubric is available at https://3d.bk.tudelft.nl/courses/geo2020/rubric/)

		10	6	80	7	9
Research	50%					
motivation/problem definition	<mark>5%</mark>	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 processed and integrated freen freids or sources and independently applied theory to the performed research	Understands and can reproduce directly relevant theory at the level of MSc textbooks, scientific literature and applied theory to the performed research	Understands and can theory at the level of MSc textbooks and is able to apply textbooks and is able to apply the theory to the performed treearch, after being shown how to do so	Understands and can reproduce directly relevant theory at the level of MSc taxtbooks, 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, infrasture and specialists new directions not available in the world	Very well balanced scientific conclusions and judgement of own results, literature and specialists. Recommendations are good and sound	Good scientific conclusions and judgement of own results, literature and specialists. Recommendations are good and sound	Sufficient scientific conclusion and judgement of own results, limited critical attitude towards litterature and towards litterature and specialists. Recommendations are adequate	Limited scientific conclusions and judgement of own results. Recommendations are just adequate
references	2%	Sources of information are fully clear 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
Presentation	20%					
written report	5%	Written report has perfect structure, consistency and clarity. 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 clarity. 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 clarity. Significant corrections needed to be appointed out by supervisors
oral (answering questions)	10%	Excellent and persuasive speaker. Answers questions perfectly to the point and with depth	Very good and persuasive speaker. Answers queetions 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	<mark>5%</mark>	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
Project	15%					
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	7%	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). Difficuties with planning
Process	15%					
skills, academic attitude	8%	Exceptional analytical, logical and integration skills, actively seeking 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	7%	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
					»-1	2018-02-12

Reference to official regulations

Subject	Registered at	Article
Graduation project	Teaching and Examination Regulations,	Article 1.7, subsection 5 and 7
	Master of Science Geomatics, 2022-2023.	
Admission to the graduation phase	Teaching and Examination Regulations,	Article 1.7, subsection 5
	Master of Science Geomatics, 2022-2023.	
Validity of P2 result	Teaching and Examination Regulations,	Article 1.31, subsection 4 and
	Master of Science Geomatics, 2022-2023.	5
Additional rules governing Master final	Rules and Guidelines of the Board of Examiners,	Article 2.24
Project	Master of Science Geomatics, 2022-2023	
Composition of the assessment commit-	Rules and Guidelines of the Board of Examiners,	Article 2.25
tee for Master Thesis Project	Master of Science Geomatics, 2022-2023	
Appointment of delegate of the Board	Rules and Guidelines of the Board of Examiners.	Article 2.5, subsection 4
of Examiners	Master of Science Geomatics, 2022-2023	
Language graduation	Rules and Guidelines of the Board of Examiners.	Article 2.7, subsection 3
	Master of Science Geomatics, 2022-2023	
Working method of the assessment	Rules and Guidelines of the Board of Examiners,	Article 2.26
committee	Master of Science Geomatics, 2022-2023	
Plagiarism scan	Rules and Guidelines of the Board of Examiners.	Article 2.8b
	Master of Science Geomatics, 2022-2023	
Publication graduation work in TU Delft	Rules and Guidelines of the Board of Examiners.	Article 2.17, subsection 6
repository	Master of Science Geomatics, 2022-2023	
Possibility for embargo on work in re-	Rules and Guidelines of the Board of Examiners.	Article 2.17, subsection 7
pository	Master of Science Geomatics, 2022-2023	,
Official date of Master final project re-	Rules and Guidelines of the Board of Examiners,	Article 2.27
sult	Master of Science Geomatics, 2022-2023	
Pass and fail rules	Rules and Guidelines of the Board of Examiners,	Article 2.28
	Master of Science Geomatics, 2022-2023	
Pass and fail rules governing the Hon-	Rules and Guidelines of the Board of Examiners.	Article 2.29
ours Program Master	Master of Science Geomatics, 2022-2023	
Pass and fail rules governing annota-	Rules and Guidelines of the Board of Examiners,	Article 2.30
tions	Master of Science Geomatics for the Built Environ-	
	ment, academic year 2022-2023	
Conferring the predicate "cum laude"	Rules and Guidelines of the Board of Examiners,	Article 2.31
5 1	Master of Science Geomatics for the Built Environ-	
	ment, academic year 2022-2023	
Honourable mention	Rules and Guidelines of the Board of Examiners,	Article 2.32
	Master of Science Geomatics for the Built Environ-	
	ment, academic year 2022-2023	
Degree certificates, supplement and re-	Rules and Guidelines of the Board of Examiners,	Article 2.33 and 2.34
sults achieved	Master of Science Geomatics for the Built Environ-	
	ment, academic year 2022-2023	

Standard time slots for evaluations (P2, P4 and P5)

Timetable P2

08:45 - 09:45 09:45 - 10:45 10:45 - 11:45 11:45 - 12:45

Break

13:45 - 14:45 14:45 - 15:45 15:45 - 16:45 16:45 - 17:45

Timetable P4

(15 minutes extra time at the end is included – only used if needed)

08:45 - 09:45 09:45 - 10:45 10:45 - 11:45 11:45 - 12:45

Break

13:45 - 14:45 14:45 - 15:45 15:45 - 16:45 16:45 - 17:45

Timetable P5

(first 15 minutes is for the student to prepare)

08:45 - 10:30
10:45 - 12:30
12:45 - 14:30
14:45 - 16:30
16:45 - 18:30

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Academic Graduation Calendar 2022 / 2023