

# IDE Master Graduation

## Project team, Procedural checks and personal Project brief

This document contains the agreements made between student and supervisory team about the student's IDE Master Graduation Project. This document can also include the involvement of an external organisation, however, it does not cover any legal employment relationship that the student and the client (might) agree upon. Next to that, this document facilitates the required procedural checks. In this document:

- The student defines the team, what he/she is going to do/deliver and how that will come about.
- SSC E&SA (Shared Service Center, Education & Student Affairs) reports on the student's registration and study progress.
- IDE's Board of Examiners confirms if the student is allowed to start the Graduation Project.

**! USE ADOBE ACROBAT READER TO OPEN, EDIT AND SAVE THIS DOCUMENT**

Download again and reopen in case you tried other software, such as Preview (Mac) or a webbrowser.

### STUDENT DATA & MASTER PROGRAMME

Save this form according the format "IDE Master Graduation Project Brief\_familyname\_firstname\_studentnumber\_dd-mm-yyyy". Complete all blue parts of the form and include the approved Project Brief in your Graduation Report as Appendix 1 !



family name \_\_\_\_\_  
 initials \_\_\_\_\_ given name \_\_\_\_\_  
 student number \_\_\_\_\_  
 street & no. \_\_\_\_\_  
 zipcode & city \_\_\_\_\_  
 country \_\_\_\_\_  
 phone \_\_\_\_\_  
 email \_\_\_\_\_

Your master programme (only select the options that apply to you):

IDE master(s):  IPD  Dfl  SPD

2<sup>nd</sup> non-IDE master: \_\_\_\_\_

individual programme: \_\_\_\_\_ - - \_\_\_\_\_ (give date of approval)

honours programme:  \_\_\_\_\_

specialisation / annotation:  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### SUPERVISORY TEAM \*\*

Fill in the required data for the supervisory team members. Please check the instructions on the right !

\*\* chair \_\_\_\_\_ dept. / section: \_\_\_\_\_  
 \*\* mentor \_\_\_\_\_ dept. / section: \_\_\_\_\_  
 2<sup>nd</sup> mentor \_\_\_\_\_  
 organisation: \_\_\_\_\_  
 city: \_\_\_\_\_ country: \_\_\_\_\_

comments  
(optional)  
 .....  
 |  
 |  
 |


**!** Chair should request the IDE Board of Examiners for approval of a non-IDE mentor, including a motivation letter and c.v..

**!** Second mentor only applies in case the assignment is hosted by an external organisation.

**!** Ensure a heterogeneous team. In case you wish to include two team members from the same section, please explain why.

**APPROVAL PROJECT BRIEF**

To be filled in by the chair of the supervisory team.

chair \_\_\_\_\_ date \_\_\_\_ - \_\_\_\_ - \_\_\_\_ signature 

**CHECK STUDY PROGRESS**

To be filled in by the SSC E&SA (Shared Service Center, Education & Student Affairs), after approval of the project brief by the Chair. The study progress will be checked for a 2nd time just before the green light meeting.

Master electives no. of EC accumulated in total: \_\_\_\_\_ EC

YES all 1<sup>st</sup> year master courses passed

Of which, taking the conditional requirements into account, can be part of the exam programme \_\_\_\_\_ EC

NO missing 1<sup>st</sup> year master courses are:

List of electives obtained before the third semester without approval of the BoE

name \_\_\_\_\_ date \_\_\_\_ - \_\_\_\_ - \_\_\_\_ signature \_\_\_\_\_

**FORMAL APPROVAL GRADUATION PROJECT**

To be filled in by the Board of Examiners of IDE TU Delft. Please check the supervisory team and study the parts of the brief marked \*\*. Next, please assess, (dis)approve and sign this Project Brief, by using the criteria below.

- Does the project fit within the (MSc)-programme of the student (taking into account, if described, the activities done next to the obligatory MSc specific courses)?
- Is the level of the project challenging enough for a MSc IDE graduating student?
- Is the project expected to be doable within 100 working days/20 weeks ?
- Does the composition of the supervisory team comply with the regulations and fit the assignment ?

Content:  APPROVED  NOT APPROVED

Procedure:  APPROVED  NOT APPROVED

comments

name \_\_\_\_\_ date \_\_\_\_ - \_\_\_\_ - \_\_\_\_ signature \_\_\_\_\_

\_\_\_\_\_ project title

Please state the title of your graduation project (above) and the start date and end date (below). Keep the title compact and simple. Do not use abbreviations. The remainder of this document allows you to define and clarify your graduation project.

start date \_\_\_\_\_ end date \_\_\_\_\_

**INTRODUCTION \*\***

Please describe, the context of your project, and address the main stakeholders (interests) within this context in a concise yet complete manner. Who are involved, what do they value and how do they currently operate within the given context? What are the main opportunities and limitations you are currently aware of (cultural- and social norms, resources (time, money,...), technology, ...).

space available for images / figures on next page

introduction (continued): space for images

image / figure 1: \_\_\_\_\_

image / figure 2: \_\_\_\_\_



**PLANNING AND APPROACH \*\***

Include a Gantt Chart (replace the example below - more examples can be found in Manual 2) that shows the different phases of your project, deliverables you have in mind, meetings, and how you plan to spend your time. Please note that all activities should fit within the given net time of 30 EC = 20 full time weeks or 100 working days, and your planning should include a kick-off meeting, mid-term meeting, green light meeting and graduation ceremony. Illustrate your Gantt Chart by, for instance, explaining your approach, and please indicate periods of part-time activities and/or periods of not spending time on your graduation project, if any, for instance because of holidays or parallel activities.

start date \_\_\_\_\_ - \_\_\_\_\_ end date \_\_\_\_\_

### MOTIVATION AND PERSONAL AMBITIONS

Explain why you set up this project, what competences you want to prove and learn. For example: acquired competences from your MSc programme, the elective semester, extra-curricular activities (etc.) and point out the competences you have yet developed. Optionally, describe which personal learning ambitions you explicitly want to address in this project, on top of the learning objectives of the Graduation Project, such as: in depth knowledge a on specific subject, broadening your competences or experimenting with a specific tool and/or methodology, ... . Stick to no more than five ambitions.

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### FINAL COMMENTS

In case your project brief needs final comments, please add any information you think is relevant.

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	What?	How?	Why?	Whatfor?
Literature	Learn about existing exoskeletons and ultra personalizable products. Understanding of the ergonomics of the foot.	Read up on ultra personalized products. Get in touch with physiotherapists. Get in touch with Paulien (she works for exoskeleton company).	This knowledge helps steer design choices. Both in terms of materials, use and fit.	Create a more concrete assignment for this graduation project. In other words, problem framing.
Contextmapping	Contextmapping using sensitizing materials and interviews --> personas, use-scenarios	Sensitizing material (booklets) and interviews	To gain a deeper understanding of the needs, desires etc of users alongside their behavior when it comes to the end of life of a product.	Persona's could be made including preferred flex and riding style, alongside an extensive user scenario that helps to dive into the context. Together, these elements form the base for different shoe designs. Diverging helps in idea finding. It can also shed a new light on the problem as given. It can be an iterative step in problem framing.
Ideation	Finding ideas for an exoskeleton as part of a snowboard shoe.	Using creative facilitation techniques	Explore the topic to form a solid base to design on.	
Co-Creation	Involve users in concept development	Using methods from the convivial toolbox	To make the product user friendly.	Concept development
Concept development	Translate gathered data into concrete designs.			
Prototyping	Make prototypes of the concept(s)	Probably using 3D printing	To make the design better by evaluate, iterate and test the design of the concepts.	This could be done for functionality but also for use.
Final Prototype	Choose one design for a more elaborate prototype which can be tested.	Probably using high quality 3D printing	To round up and make decisions on the design that allow for proper testing.	This final design serves both presentational purposes but also will be tested on functionality and use.
Testing	Test its functionality and user experience.	Invite people to put it on and evaluate it. Using presentation materials ask them about their opinion on the product, how they would use it and what their expectations are.	Creating a feedback loop with users.	Iterating on the product. Small and bigger tests will be done throughout the project as medium to improve it. The test on the final prototype will help with forming recommendations.
Report Writing	Write steps and conclusions of the relevant process parts.	Write down insights and conclusions in a Drive document throughout the project.	To make sure rich insights do not get lost in memory. Working in a cloud avoids unpleasant situations were data could get lost.	This helps with a smoother round up at the end of the graduation project.
Presentation Making	Make presentation	Using Powerpoint for instance.	To update my coaches on the process and project and create moments for questions and feedback. I choose to keep the date undefined so the break can be used in case an ordered part is late, or I need to wait for something else. It helps to prevent overflow.	An involved team and better learning curve for me.
Break	Rest.	Movable according to project development.		A break could help me get new energy and inspiration for the project.