

Doctoral Plan – Recommended Template

Dear Doctoral Student

The purpose of this document is to help you to write your Doctoral Plan, which you have to compile in advance of the Aptitude Colloquium.

The integrated Research Proposal will be the basis for your Aptitude Colloquium, which you need to pass in order to advance to definitive admission as a doctoral student.

Please note that the Doctoral Plan has not the character of a legally binding agreement but is rather a declaration of intent between you and your supervisor and should be conceived as a living instrument. Changes are possible and in many cases certainly necessary. Major changes should be documented in the annual progress report and discussed during status conversations.

*Please also check whether your Department sets additional requirements and if a specific template is available. If this is the case, **follow the indications of your Department.***

The outline presented here is structured to meet the requirements of the Doctoral Ordinance (Art. 11) and the Rector's Implementation Provisions for the Ordinance on Doctorate (Item 3)

Basic Information

| | | | |
|-----------------------|-----------------|--------------------------------------|------------|
| Student number | 18-940-213 | Department | D-MAVT |
| Name Doctoral Student | Michael Weinold | Doctoral programm (if applicable) | |
| Name Supervisor | Russell McKenna | Start of Doctorate | 01/07/2022 |
| Name Second advisor | | | |

Tentative title of the doctoral thesis

Hybrid Life-Cycle Assessment of Sustainable Aviation

Part 1 Research Proposal

(please add extra pages here; use the following structure to describe your research work)

1. Abstract

Present the background of your research project, list its main goals, describe the methods to be used and the expected results as well as their impact for the field and beyond.

2. Introduction and Current State of Research in the Field

Describe your project in the context of the current state of knowledge in your field. Refer to the most important publications.

Describe briefly:

- Which previous insights provided the starting point and basis for your project
- In which areas research is needed, and why

3. Goals of the Thesis

Describe the research questions you address in your research project and the concrete objectives that you aim to achieve in the period of your doctorate.

Illustrate the expected impacts of your project: how will your proposed research add to existing knowledge in the field? How and where might your results be used? How do you intend to disseminate your research?

4. Progress to Date (optional/ if available)

Present the research work you have already undertaken in the relevant field, describe the results obtained so far (including publications) as well as the relevance of these preliminary undertakings for your project. Also, describe your "negative results": if something went wrong, what could you learn from this?

5. Detailed Work Plan

Describe the studies or experiments envisaged to reach the set goals. Present your work plan in the form of work packages (WP), each defining the task and describing the methods used and the expected outcome. In general, a work package should describe 3 - 12 months of work. Assess the risks involved for each work package: if the planned research does not work, which other parts of your plan are affected, what other objectives could you follow?

WP 1: ...

WP 2: ...

6. Time Schedule (potentially as a visualization)

Indicate the tentative timeframe for each work package and mark possible milestones. Your time schedule should be based on the average time of 4 years of doctorate.

7. References

List the sources of all work referred to in the research proposal. Give the full reference, especially the title, source and full author list (use a style commonly adopted in the field of your research).

Part 2 Teaching Responsibilities

Describe which teaching tasks you are assigned to and indicate (roughly) how many hours you devote to such activities each week.

Teaching tasks are, e.g. assisting in lectures, practical classes, exercise classes and excursions, correcting students' reports, supervising undergraduates in semester projects, summers schools, marking /overseeing exams.

Teaching Assistant to Dr. Peter Wild in the lectures:

Basics of Air Transport (Aviation I) & Management of Air Transport (Aviation II)

Estimate of weekly workload during the semester (based on prev. years):

On-site support during lectures: 4 FTE

Interaction with guest lecturers (invitations, reminders, document management): 1 FTE

Other (Moodle curation/maintenance, interaction with students): 2 FT

Part 3 Further Tasks

If relevant, describe which additional tasks you are assigned to (e.g., operation or maintenance of equipment). Indicate (roughly) how many hours you devote to such activities each week.

Setup and maintenance of back-end/front-end of a digital research collection ("the database") providing metrics and general insights for group members.

Estimate for initial analysis: 15 FTE

Estimate for working prototype: 25 FTE

Estimate for training personnell and populating database: 25 FTE

Estimate for maintenance: 0.5 FTE/week

Part 4 Extended doctoral studies

How many ECTS credit points are you obliged to complete in your extended doctoral studies (additionally to the 12 ECTS credit point of the regular doctoral studies)?

0

Please add here your individual study plan including a tentative schedule (e.g., by using the learning agreement in mystudies). Please check the prerequisites of your department by consulting the Detailed stipulations regarding the Doctorate.

Signatures

27/09/2022



Date

Signature Doctoral Student

Signature Supervisor

Signature Second Advisor