GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2024-2025

Master Thesis, Research Project (C004167)

Course size *(nominal values; actual values may depend on programme)*

Credits 21.0 **Study time 630 h**

Course offerings in academic year 2024-2025

A (semester 1)	English	Gent

Lecturers in academic year 2024-2025

Du Prez, Filip	WE07	lecturer-in-charge
Vincze, Laszlo	WE06	co-lecturer

Offered in the following programmes in 2024-2025	crdts	offering
Master of Science in Chemistry(main subject (Bio)Organic and Polymer Chemistry)	21	A
Master of Science in Chemistry(main subject Analytical and Environmental Chemistry)	21	A
Master of Science in Chemistry(main subject Materials and Nano Chemistry)	21	A

Teaching languages

English

Keywords

Implementation of research plan, advanced scientific research, setting up and conducting scientific experiments, interpretation of experimental scientific results, scientific reporting, presentation and defense of research results, in the field of analytical, inorganic, physical, organic or polymer chemistry.

Position of the course

This course contributes to the formation of the master in chemistry as an advanced scientific researcher. Central aspects in this course are the implementation and adjustment of advanced scientific research, scientific decision-making and the writing down, presentation and defense of own research results.

Contents

The course 'Master Thesis, Research Project' deals with an individual project on a current topic in chemistry research, in which the implementation of the research plan proposed in the course 'Master Thesis, Research Plan' (C004166) is central. In principle, 'Master Thesis, Research Plan' and 'Master Thesis, Research Project' deal with the same scientific research question. Deviations from this rule are only possible after explicit permission from the Examination Board. The course 'Master Thesis, Research Project' aims to independently answer a scientific problem by means of advanced scientific research in the field of chemistry. The results of this research and the decision-making are written down in a scientific report (the master thesis), presented and defended in front of a scientific jury and summarized on a poster.

Initial competences

Having successfully obtained 48 ECTS in the master of chemistry, and having taken the course 'Master Thesis, Research Plan' (C004166).

Final competences

1 The student is able to carry out advanced scientific research on an idependent basis.
2 Based on partial results, the student can adjust the objectives of an original research plan in order to obtain the desired insights and results.
3 The student can reach a decision on the basis of a set of research results that provides an answer to the original scientific question.

4 The student can write down the whole of the objective, research results and decision making in a written report.
5 The student is able to clarify and defend research results and decision-making in a scientific discussion with researchers who are directly or less directly familiar with the research topic.
6 The student is able to communicate his own research results to a broader public with scientific interest.

Conditions for credit contract

This course unit cannot be taken via a credit contract

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Master's dissertation, Independent work

Study material

None

References

Course content-related study coaching

Personal guidance at regular intervals by the promoter.

Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Assignment

Examination methods in case of periodic assessment during the second examination period

Assignment

Examination methods in case of permanent assessment

Professional practice

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Extra information on the examination methods

The student is monitored by the supervisor throughout the semester. The result of this is translated into two sub-scores, namely for the components 'student's scientific quality, skills' and 'student's scientific attitude'.
All students are expected to consult and apply the faculty code of conduct for the use of GenAI during the master's dissertation. The study programme, supervisor or promotor will communicate any deviations or additions to these faculty guidelines directly to students through the usual UGent-channels.

Calculation of the examination mark

The student is assessed by the supervisor, assisted by two reading commissioners, who have also evaluated him/her in the course 'Master Thesis, Research Plan' (C004166).
The following components are assessed: 'scientific quality of implementation of research plan', 'scientific quality of work: content', 'scientific quality of work: discussion', 'student's scientific quality, skills', 'student's scientific attitude', 'text layout and design' and 'presentation layout and design'. It is checked to what extent the student has taken into account the recommendations formulated by the reading commissioners at the end of "Master Thesis, Research Plan". Ultimately, this yields a final score out of 20. A detailed evaluation table will be made available at the start.