GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2024-2025

Master's Dissertation (J000523)

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

Credits 30.0 **Study time 800 h**

Course offerings and teaching methods in academic year 2024-2025

A (Year)	English	Gent	master's dissertation

Lecturers in academic year 2024-2025

De Beer, Thomas	FWO2	lecturer-in-charge

Offered in the following programmes in 2024-2025	**crdts**	**offering**
Master of Science in Pharmaceutical Engineering	30	A

Teaching languages

English

Keywords

Master's Dissertation

Position of the course

A Master's Dissertation is defined as "a paper completing a Master program, in which a student shows analytical and synthetic capabilities, an independent problem solving capability at an academic level and, in general, a critical, reflecting attitude or research oriented attitude. In the Master of Science in Pharmaceutical Engineering, these objectives are achieved in a research task to be performed independently by the student, which is performed at a pharmaceutical company or at a research laboratory (e.g., university, research centers, etc.). For a stay abroad, a student may obtain a scholarship as part of the EU Erasmus program. The student chooses a supervisor among the "independent staff" (professors) of the UGent who have a teaching responsibility in the master program involved faculties or among the postdoctoral researchers with a research assignment in the involved faculties. For students going abroad or staying in a laboratory outside the UGent, the UGent member sending out the student is the responsible supervisor. For external research projects within the Ghent University the director (or another staff member) of the guest laboratory is the official supervisor. The supervisor and his co-workers are responsible for the scientific supervision and practical coaching of the student.

Contents

The student carries out experimental work spread over the entire academic year at the pharmaceutical company or at a research laboratory (e.g., university, research centers, etc.) . The topic of the dissertation is situated in one of the scientific disciplines of the student's pharmaceutical engineering education . Projects carried out in the faculty departments are often but not necessarily part of the research of the doctoral students. The results of the research and a critical discussion are written down in a dissertation, to be defended in public before a jury consisting of the supervisor and two other professors or postdoctoral researchers. The requirements to be satisfied by a thesis as well as the evaluation procedure are specified in a "Faculty code concerning the Master's Dissertation" (in English).

Initial competences

A thorough scientific basic knowledge and knowledge of research techniques in the field of the master of Pharmaceutical Engineering.

Final competences

1 To conduct scientific literature searches.
2 To plan and independently perform scientific experiments.
3 To analyze and interpret research results in a critical way.
4 To describe and discuss research results in a dissertation.
5 To present research results orally.
6 To conduct a scientific discussion about research results.

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

Study material

None

References

Course content-related study coaching

Individual presentations by the student for an audience including the industrial or academic supervisor, the latter's co-workers and the former's fellow master students.
Individual coaching by the supervisor and his co-workers.

Assessment moments

end-of-term and continuous assessment

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

Oral assessment, Assignment

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

Oral assessment, Assignment

Examination methods in case of permanent assessment

Participation

Possibilities of retake in case of permanent assessment

examination during the second examination period is not possible

Extra information on the examination methods

1 Participation: evaluation of application and attitude (by the supervisor).
2 Scoring of the dissertation by the supervisor and two other jury members.
3 Oral defence: presentation (5min), questioning (15 min).
The dissertation supervisors are available to provide feedback about the final scores.

The contents of the master's thesis regulations and the master's thesis guidelines (available at Ufora) are an integral part of this course sheet.

Calculation of the examination mark

In order to pass the complete course, the student has to pass the three parts (participation,
dissertation and defence). If the student does not succeed for the three parts separately, a
maximum score of 9/20 can be obtainded.
If the student does not succeed for the part "Participation", there is no possibility for retake
(during the second-term examination period). In case of an Erasmus program: no second stay
abroad is possible.
If the student succeeds for the three parts, the final mark is counted by the following weights:
1 Evaluation of the Participation (by the supervisor): 20 %.
2 Evaluation of the Dissertation by the supervisor and two other jury members: 40 %

3 Evaluation of the Oral defence by the supervisor and two other jury members: 40%.

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.