GHENT UNIVERSITY

# Course Specifications

Valid as from the academic year 2017-2018

## Master's Dissertation (C002315)

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

| Credits | Study time | Contact hrs |
|---|---|---|
| 30.0 | 900 h | 250.0 h |

Course offerings and teaching methods in academic year 2018-2019

| | | | |
|---|---|---|---|
| A (year) | Dutch | master's dissertation | 250.0 h |

Lecturers in academic year 2018-2019

| | |
|---|---|
| N., N. | lecturer-in-charge |

| Offered in the following programmes in 2018-2019 | crdts | offering |
|---|---|---|
| Master of Science in Physics and Astronomy | 30 | A |

Teaching languages

Dutch

Keywords

Research in physics and/or astronomy, written and oral reporting

Position of the course

The Master's Dissertation consists of a research project which finalises the master and which should illustrate the acquired knowledge and skills. The student demonstrates an analytical, synthesizing and autonomous problem-solving capacity on an academic level. With this project the student proves his/her general critical-reflexive and research attitude.
The research project involves the collecting, processing, analysis and interpretation of data. The research project does take place within the own faculty departments, another faculty of the UGent, another research institution (possibly abroad) or a company. For a stay abroad, a student may obtain a scholarship as part of the EU Erasmus program only if the duration of the internship is at least 2 months.
For students going abroad the faculty member sending out the student is the responsible supervisor.

Contents

The topics concern a physical and/or astronomical scientific problem and are announced to the students around Easter by the Physics and Astronomy Education Board via the Minerva Master-infosite.

Initial competences

The final competences of a Bachelor in Physics and Astronomy (see study guide)

Final competences

1 To be able to study, independently and in team, a physical/astronomical topic and position it in a broader scientific and societal context.
2 To be able to make an international literature study in a critical way.
3 To be able to gather, preferably original, experimental, theoretical or computational data and to summarise, analyse and interpret them critically.
4 To have good knowledge about the most important methods to independently model the physical world in a quantitative way.
5 To be able to report the results both in an oral and in a written way.
6 The ambition must be to collect publishable 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, work placement

Learning materials and price

References

Course content-related study coaching

Supervising PhD students, postdocs and promoter(s)

Evaluation methods

end-of-term evaluation

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

Oral examination, assignment

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

Oral examination, assignment

Examination methods in case of permanent evaluation

Participation, assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Examination methods in case of permanent evaluation Participation to the research, teamwork, intermediate oral and/or written reporting, work document

Calculation of the examination mark

¼ of the score is related to the daily activities of the student (accuracy, communication, motivation, drive, degree of independence)
½ of the score is based on the scientific and format-technical quality of the dissertation.
¼ of the score is based on the oral defence (presentation and response to questions).