

# Course Specifications

Valid in the academic year 2024-2025

# Master's Dissertation (C002315)

Course size	(nominal values; actual values may depend on programme)				
Credits 30.0	Study time 900 h				
Course offerings and teaching methods in academic year 2024-2025					
A (Year)	Dutch Gent		master's dissertatio	master's dissertation	
Lecturers in academic ye	ear 2024-2025				
N., N.			lecturer-in-cha	lecturer-in-charge	
Offered in the following programmes in 2024-2025			crdts	offering	
Master of Science in Physics and Astronomy			30	А	

#### 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

# Study material

None

### References

# Course content-related study coaching

Supervising PhD students, postdocs and promoter(s)

# Assessment moments

end-of-term assessment

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

Oral assessment, Presentation, Assignment

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

Oral assessment, Assignment

#### Examination methods in case of permanent assessment

Professional practice, Participation

#### Possibilities of retake in case of permanent assessment

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
- All students are expected to consult and apply the <u>faculty code of conduct for</u> <u>the use of GenAl during the master's dissertation</u>. 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

40% of the score is related to the daily activities of the student (accuracy, communication, motivation, drive, degree of independence) 40% of the score is based on the scientific and format-technical quality of the dissertation.

20% of the score is based on the oral defence (presentation and response to questions).