

Philosophy of Mathematics and Natural Sciences (A005609)

Cursusomvang *(nominale waarden; effectieve waarden kunnen verschillen per opleiding)*

Studiepunten 9.0

Studietijd 270 u

Aanbodsessies in academiejaar 2026-2027

A (Jaar)

Engels

Gent

Lesgevers in academiejaar 2026-2027

Van Kerkhove, Bart

LW01

Verantwoordelijk lesgever

Weber, Erik

LW01

Medelesgever

Aangeboden in onderstaande opleidingen in 2026-2027

[Research Master of Arts in Philosophy](#)

stptn

aanbodsessie

9

A

Onderwijstalen

Engels

Trefwoorden

Mathematical practice, explanation, causation, proof, scientific representation

Situering

This course is one of the eighteen research seminars that constitute the core of the master programme. Depending on initial qualifications, students enrol for three or five such research seminars

Inhoud

The lecturers' expertise allows students to conduct research into philosophical questions regarding various aspects of mathematical practice (including (visual) evidence, the role of diagrams, explanation, aesthetic aspects and argumentation). Philosophical questions on explanation and causality in physics and genetics can also be chosen as research topics. For students enrolled in the research master detailed information is available on the Ufora-site 'ReMa Philosophy General Information'.

Begincompetenties

Knowledge of philosophy of science at intermediate level.
Competent in philosophical writing and argumentation.

Eindcompetenties

- 1 Ability to formulate original and innovative research problems based on the duly founded insight into the internationally recognised state-of-the-art in the philosophy of mathematics and the natural sciences.
- 2 Ability to work out original solutions to the selected research problems, and argue for them clearly and convincingly.
- 3 Ability to deepen one's knowledge of the philosophy of mathematics and the natural sciences independently.
- 4 Ability to report on research orally (for academic peers) in a clearly-understood manner.
- 5 Having a work attitude that allows to function in research teams and that guarantees integrity of the research.

Creditcontractvoorwaarde

Toelating tot dit opleidingsonderdeel via creditcontract is mogelijk na gunstige beoordeling van de competenties

Examencontractvoorwaarde

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

Didactische werkvormen

Werkcollege, Zelfstandig werk

Studiemateriaal

Geen

Referenties**Vakinhoudelijke studiebegeleiding**

Individual help is offered by the lecturers.

Evaluatiemomenten

niet-periodegebonden evaluatie

Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode**Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode****Evaluatievormen bij niet-periodegebonden evaluatie**

Vaardigheidstest, Participatie, Werkstuk

Tweede examenkans in geval van niet-periodegebonden evaluatie

Niet van toepassing

Toelichtingen bij de evaluatievormen

Oral presentation of research results, participation in discussions during seminars.

Paper assignments, written research reports.

Eindscoreberekening

Presentation & participation: 40%

Paper: 60%

Faciliteiten voor werkstudenten

None.