GHENT UNIVERSITY

# Course Specifications

Valid as from the academic year 2025-2026

## Domain-Specific Research Skills (E029800)

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

**Credits 3.0** **Study time 90 h**

**Course offerings in academic year 2026-2027**

| | | |
|---|---|---|
| A (semester 1) | English | Gent |
| B (semester 1) | Dutch | Gent |

**Lecturers in academic year 2026-2027**

| | | |
|---|---|---|
| De Paepe, Michel | TW08 | lecturer-in-charge |

| **Offered in the following programmes in 2026-2027** | **crdts** | **offering** |
|---|---|---|
| Bridging Programme Master of Science in Engineering: Ships and Marine Technology | 3 | A |
| Bridging Programme Master of Science in Mechanical and Electrical Systems Engineering | 3 | A |
| Master of Science in Electromechanical Engineering(main subject Maritime Engineering) | 3 | B |
| Master of Science in Electromechanical Engineering | 3 | B |
| Master of Science in Engineering: Ships and Marine Technology | 3 | B |
| Master of Science in Engineering: Ships and Marine Technology | 3 | A |
| Master of Science in Mechanical and Electrical Systems Engineering | 3 | A |

**Teaching languages**

English, Dutch

**Keywords**

Research methodology for a specific field, literature review, research objectives, research project-management

**Position of the course**

This course allows supervisors to prepare students for the master thesis in their research field of specialisation.

**Contents**

- Introductory courses on
  - Error analysis
  - Experimental techniques and Design of Experiments
  - Simulation tools
- In depth courses on specialized research topics
- Reading of relevant research papers on advanced research topics
- Literature research and review on advanced research topics
- Research objective formulation

**Initial competences**

- Basic research competences
- In depth knowledge of the courses related to the pillar(s) f the educational programme

**Final competences**

1 Be able to write a literature review on an advanced research topic
2 Be able to make a research planning
3 Be able to formulate research objectives

**Conditions for credit contract**

Access to this course unit via a credit contract is determined after successful competences assessment

**Conditions for exam contract**

This course unit cannot be taken via an exam contract

**Teaching methods**

Seminar, Lecture

**Extra information on the teaching methods**

This course is taught in the last 6 weeks of the semester.

**Study material**

Type: Slides

Name: Slides
Indicative price: Free or paid by faculty
Optional: no

**References**

**Course content-related study coaching**

Interactive support by thesis promotor and team.

**Assessment moments**

continuous assessment

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

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

**Examination methods in case of permanent assessment**

Assignment

**Possibilities of retake in case of permanent assessment**

not applicable

**Extra information on the examination methods**

- Uploading list of relevant literature on Ufora
- Handing in of strawmans draft for the literature review
- Handing in of literature study on selected topic

**Calculation of the examination mark**

The first two assignments are scored on 10/20 the literature review on 10/20.