GHENT UNIVERSITY

Course Specifications

Valid as from the academic year 2025-2026

Technology-Based Entrepreneurship (I003038)

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

Credits 5.0 **Study time 150 h**

Course offerings in academic year 2026-2027

A (semester 1) English Gent

Lecturers in academic year 2026-2027

Temiz, Serdar UPPSALO1 lecturer-in-charge

Offered in the following programmes in 2026-2027	crdts	offering
International Master of Science in Sustainable and Innovative Natural Resource Management	5	A

Teaching languages

English

Keywords

Position of the course

Technology-based entrepreneurship engages with the creativity and uniqueness of each student to facilitate their own ambitions to materialize a high or deep-tech idea. The course has a solid foundation in theory on entrepreneurship as a disruptive organisation-creation, which stretches to alternative forms of value creation, such as green, social and economic value. The exam is in the form of a group project presented as a film, as well as an individual essay which is advanced in interaction with other students during seminar sessions.

Contents

Basic knowledg about creativity, the innovation system and methods for commercialisation that stimulate innovative organisational processes within high-tech entrepreneurial initiatives. Various forms of entrepreneurship. Analysis of business opportunities as well as start-up and operation of entrepreneurial processes based on new technical knowledge and new technical capabilities. Description of the relationship between research on entrepreneurship and commercialisation processes in practice.

Initial competences

120 credits, of which 90 credits in science/engineering. Participation in Industrial Strategy and Organisation, Industrial Management, Innovation Management and Entrepreneurship or Industrial Engineering and Management I: the Functions of the Corporation. Proficiency in English equivalent to the Swedish upper secondary course English 6.

Final competences

1 On completion of the course, the student should be able to
- explain and apply knowledge about creativity for innovative organisational processes that underpin entrepreneurial initiatives,

2 • create a hypothetical technology-based entrepreneurship commercialisation plan,

3 • analyse business opportunities for a start-up based on new technical knowledge and new technical capabilities,

4 • analyse and compare various forms of entrepreneurship such as academic entrepreneurship, technology-based entrepreneurship and alternative forms of entrepreneurship,

5 • critically reflect on norms within entrepreneurship and entrepreneurial ecosystems,
6 • orally and in writing present the result of a project work.

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

Group work, Seminar, Lecture, Independent work

Extra information on the teaching methods

Lectures, guest lectures, seminars, and supervision of project work.

Study material

None

References

- Byers, Thomas H.; Dorf, Richard C.; Nelson, Andrew J., Technology ventures: from idea to enterprise, Fifth edition., New York, NY, McGraw-Hill Education, [2019]Compulsory*

Course content-related study coaching

Assessment moments

end-of-term and continuous assessment

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

Oral assessment, Presentation, Written assessment

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

Oral assessment, Presentation, Written assessment

Examination methods in case of permanent assessment

Participation, Presentation

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Extra information on the examination methods

Active participation at seminars (2 credits), as well as written and oral presentation of project work (3 credits).
If there are special reasons for doing so, an examiner may make an exception from the method of assessment indicated and allow a student to be assessed by another method. An example of special reasons might be a certificate regarding targeted pedagogical support from the disability coordinator of the university.

Calculation of the examination mark