

## Biotechnology in a Professional and Societal Context (I002933)

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

**Credits 4.0** **Study time 120 h**

**Course offerings in academic year 2024-2025**

A (Year) English Gent

**Lecturers in academic year 2024-2025**

Van de Wiele, Tom	LA25	lecturer-in-charge
De Mey, Marjan	LA25	co-lecturer
Desmet, Tom	LA25	co-lecturer
Geelen, Danny	LA21	co-lecturer
Kyndt, Tina	LA25	co-lecturer
Skirtach, Andre	LA25	co-lecturer
Stock, Michiel	LA26	co-lecturer
Van Camp, John	LA23	co-lecturer
van der Meulen, Karen	LA25	co-lecturer

**Offered in the following programmes in 2024-2025**

	<b>crdts</b>	<b>offering</b>
<a href="#">Master of Science in Bioscience Engineering: Cell and Gene Biotechnology</a>	4	A

**Teaching languages**

English

**Keywords**

Biotechnology, Technology Transfer

**Position of the course**

This course aims at interactively familiarizing the student with the current applications of biomedical, industrial and plant biotechnology. The course raises the student's awareness on writing and managing a research project, dissemination and valorization of its results and its impact on the society.

**Contents**

1. Project conceptualization and writing
2. Project management including biosafety and regulation
3. Dissemination
4. Valorisation

**Initial competences**

Biotechnology in a Professional and Societal Context builds on certain learning outcomes of course unit Plant Biotechnology, Industrial biotechnology, Human and Animal Biotechnology and Management for Engineers; or the learning outcomes have been achieved differently.

**Final competences**

- 1 the students have acquired a sound understanding in project writing and management
- 2 Understand and apply appropriate biosafety (and biosecurity) measures related to experimental set-up and procedures and Recognize applicable legal requirements and prepare the necessary documents to obtain authorizations
- 3 the students have acquired a sound understanding of the socioeconomic relevance of academic research and expertise, particularly biotechnology
- 4 the students have acquired a sound understanding of the Valorization/Techtransfer landscape, from both an academic and industry point of view.
- 5 the students have acquired a sound understanding of how to detect research results or

know-how that potentially can make it to real-life applications, and of how to purposely develop this know-how into mature technology that is ready for transfer to industry.

6 Have good social and communication skills to function in a team

7 Display good communication skills to pitch a project proposal and defend it in front of an assessment committee, composed of lecturers and student peers

#### **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**

Group work, Lecture, Independent work

#### **Extra information on the teaching methods**

Study coaching is foreseen as face to face contact during set hours or via e-mail with the main lecturer being available for addition information or clarification of the course material or task given.

#### **Study material**

None

#### **References**

#### **Course content-related study coaching**

Intensive coaching and collaboration between students, lecturers and assistants

#### **Assessment moments**

end-of-term and continuous assessment

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

Oral assessment, Peer and/or self assessment, Assignment

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

Oral assessment, Assignment

#### **Examination methods in case of permanent assessment**

Participation, Assignment

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

not applicable

#### **Extra information on the examination methods**

Students are evaluated based on their participation to the various activities (presence as well as contribution) and the submitted assignments

#### **Calculation of the examination mark**

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.