

Exploring, Evaluating and Exploiting Opportunities (Entrepreneurship) in Chemistry (C003981)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

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

Credits 3.0 **Study time** 90 h **Contact hrs** 17.5 h

Course offerings and teaching methods in academic year 2020-2021

A (year)	Dutch	Gent	seminar: coached exercises	12.5 h
			lecture	5.0 h

Lecturers in academic year 2020-2021

Clarysse, Bart	EB23	lecturer-in-charge
Van Hecke, Kristof	WE06	co-lecturer

Offered in the following programmes in 2020-2021

Bachelor of Science in Chemistry	crdts	offering
	3	A

Teaching languages

Dutch

Keywords

Entrepreneurship, design, communication

Position of the course

Exploring, Evaluating and Exploiting Opportunities in Chemistry do not require specific skills or knowledge to enroll. It aims at skill development in relation to science communication, opportunity search, development of business cases, team cooperation. Moreover, students are made familiar to design thinking. Students also explore in the taught component how role models exploit opportunities within the broad domain of chemistry. Students are expected to develop a chemistry-related business such as a commercial opportunity or a case with a societal impact.

Contents

Introduction

- project description
- video based examples of other projects
- team composition

Workshop 1: Idea presentation

- problem and solution presentation
- feedback and discussion

In-between Coaching

- individual team feedback and coaching in preparation of workshop 2

Workshop 2: Feasibility study

- persona development
- data presentation (moodboard journey)
- feedback

In-between Coaching

- individual team feedback and coaching in preparation of workshop 3

Workshop 3: prototyping

- prototype presentation
- visualisation of a prototype
- presentation of user feedback

In-between Coaching

- individual team feedback and coaching in preparation of workshop 4

Workshop 4: Business Case

- implementation plan
- milestone feedback

Wrap up

- discussion of the journey

Initial competences

None

Final competences

- 1 Student can translate detect societal or commercial problems in chemistry and transform them into opportunities.
- 2 Student can apply design techniques to communicate a value proposition.
- 3 Student can present a business case with commercial or societal value.
- 4 Student can use market research techniques to validate his/her ideas.

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

Lecture, seminar: coached exercises, online lecture, online seminar, online seminar: coached exercises

Learning materials and price

English text book, video material, background readings

References

Course content-related study coaching

Evaluation methods

end-of-term evaluation and continuous assessment

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

Oral examination, report

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

Oral examination, report

Examination methods in case of permanent evaluation

Participation

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Calculation of the examination mark

Participation in workshops and progress: 30%

Written project: 50%

Presentation: 20%