

# BACHELOR IN BUSINESS ENGINEERING

## Graduate profile

This bachelor programme embodies the original vision of Ernest Solvay, founder of the School: to train future entrepreneurs, managers and leaders who understand the technological and economic challenges of their time.

The program is resolutely multidisciplinary. It exposes students to all key disciplines that are relevant to management, while providing them with solid scientific foundations and exposure to industrial processes and current technological challenges. Fluency in languages is strongly supported, with courses in Dutch and English throughout the curriculum.

This multifaceted programme is a combination of theory and practice, which provides students with all of the academic foundations of management for an easy integration into a business environment. It also exposes students to the challenges of sustainable development and their solutions, through various courses within thematic paths integrated into the programme.

The curriculum in Business Engineering combines natural sciences (chemistry, physics, and mathematics) with "management" aspects. It is complemented by courses in law, humanities, statistics and economics as well as a solid foundation in the English and Dutch languages. This broad core curriculum is supplemented by optional courses grouped into "minors". Minors allow students to gradually begin their specialisation and their choice of master.

- > The minor in Management strengthens students' knowledge in innovation, communication and technology in order to prepare them for the Masters in Business Engineering and in Management Sciences;
- > The minor in Economics and Management opens up to the diversity of issues in economics relevant to understanding the business world in order to prepare them for the Masters in Business Engineering, Management Science and Business Economics;
- > The minor in Economics deepens the knowledge in economics and allows the acquisition of concepts that students need in order to continue their studies with a master's degree in economics (with a complementary programme of 15 credits during the master).

*On completion of this programme, students are expected to reach the following learning outcomes:*

<b>LEARNING GOALS</b>	<b>LEARNING OBJECTIVES</b> « OUR GRADUATES WILL BE ABLE TO...»
<b>LG1</b> <b>Disciplinary knowledge and its applications</b>	<b>LO 1.1</b> Apply fundamental concepts, tools and models in economics and management to formulate a well-defined problem and propose a multidisciplinary solution
	<b>LO 1.2</b> Understand the scientific and technological principles and their impact on managerial analysis
	<b>LO 1.3</b> Integrate sustainable development in analyses
<b>LG2</b> <b>Academic mindset</b>	<b>LO 2.1</b> Adopt a scientific approach to data collection, research and analysis and communicate results with clear, structured and sophisticated arguments
	<b>LO 2.2</b> Display critical thinking, logical and abstract reasoning and develop an independent approach to learning
<b>LG3</b> <b>Analytical skills</b>	<b>LO 3.1</b> Apply quantitative and qualitative techniques to support problem solving using standard office and scientific software
	<b>LO 3.2</b> Write simple code and conceptualize the key coding steps needed to solve a complex problem
<b>LG4</b> <b>Professional skills</b>	<b>LO 4.1</b> Work and communicate effectively as part of a team in an international and multicultural environment
	<b>LO 4.2</b> Recognize ethical dilemmas and contribute to solving them