

# Simulation and design tools

## Titulaires

Frédéric DEBASTE (Coordonnateur) et Tom VAN ASSCHE

## Mnémonique du cours

CHIM-H514

## Crédits ECTS

4 crédits

## Langue(s) d'enseignement

Anglais

## Période du cours

Premier quadrimestre

- › Work in an industrial environment with attention to safety, quality assurance, communication and reporting
- › A creative, problem-solving, result-driven and evidence-based attitude, aiming at innovation and applicability in industry and society
- › Consciousness of the ethical, social, environmental and economic context of his/her work and strives for sustainable solutions to engineering problems including safety and quality assurance aspects
- › The flexibility and adaptability to work in an international and/or intercultural context
- › An integrated insight in chemical process and materials' technology

## Méthodes d'enseignement et activités d'apprentissages

### Contribution au profil d'enseignement

This teaching unit contributes to the following competences:

- › In-depth knowledge and understanding of integrated structural design methods in the framework of a global design strategy
- › In-depth knowledge and understanding of the advanced methods and theories to schematize and model complex problems or processes
- › Reformulate complex engineering problems in order to solve them (simplifying assumptions, reducing complexity)
- › Collaborate in a (multidisciplinary) team

## Autres enseignements

### Contact(s)

Frédéric Debaste (fdebaste@ulb.ac.be)

Jean-Pierre Vanbergen (Jean.Pierre.Vanbergen@ulb.ac.be)

Harry Verelst (hverelst@vub.ac.be)

## Programmes

### Programmes proposant ce cours à l'école polytechnique de Bruxelles

MA-IRMA | Master : ingénieur civil en chimie et science des matériaux | finalité Spécialisée/bloc 2