

Simulation and design tools

Titulaires

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Mnémonique du cours

CHIM-H514

Crédits ECTS

4 crédits

Langue(s) d'enseignement

Anglais

Période du cours

Premier quadrimestre

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
- › 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

Autres renseignements

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Méthode(s) d'évaluation

Autre

Langue(s) d'évaluation principale(s)

Anglais

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