

# Project in Electromechanical Engineering

## Titulaires

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## Mnémonique du cours

PROJ-H405

## Crédits ECTS

5 crédits

## Langue(s) d'enseignement

Anglais

## Période du cours

1e et 2e quadrimestre

- Collaborate in a (multidisciplinary) team
- Work in an industrial environment with attention to safety, quality assurance, communication and reporting
- Develop, plan, execute and manage engineering projects at the level of a starting professional
- Think critically about and evaluate projects, systems and processes, particularly when based on incomplete, contradictory and/or redundant information
- A creative, problem-solving, result-driven and evidence-based attitude, aiming at innovation and applicability in industry and society
- A critical attitude towards one's own results and those of others
- 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 attitude of life-long learning as needed for the future development of his/her career

## Méthodes d'enseignement et activités d'apprentissages

### Contribution au profil d'enseignement

This teaching unit contributes to the following competences:

- Reformulate complex engineering problems in order to solve them (simplifying assumptions, reducing complexity)
- Conceive, plan and execute a research project, based on an analysis of its objectives, existing knowledge and the relevant literature, with attention to innovation and valorization in industry and society
- Correctly report on research or design results in the form of a technical report or in the form of a scientific paper
- Present and defend results in a scientifically sound way, using contemporary communication tools, for a national as well as for an international professional or lay audience

## Méthode(s) d'évaluation

Autre

## Programmes

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

MA-IREM | **Master : ingénieur civil électromécanicien** | finalité Spécialisée/bloc 1 et finalité Operation engineering and management/ bloc 1