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LMINOMECA - Introduction

Introduction

Introduction

The aim of this track is to enable the students to increase and broaden their knowledge and skills in different areas of Mechanical Engineering. More specifically, this programme offers the students the opportunity to build a solid background knowledge of continuum mechanics (fluid and solid mechanics) and thermodynamics, both from the theoretical and the applied standpoints. Further, it offers applied but rigorous training in machine design, analysis of machine components and manufacturing. Finally, this programme allows the students to develop a strong expertise in mathematical modelling and methods for numerical simulation.

LMINOMECA - Teaching profile

Learning outcomes

Programme

DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2026-2027
- ⊖ Not offered in 2026-2027 but offered the following year
- ⊕ Offered in 2026-2027 but not the following year
- △ ⊕ Not offered in 2026-2027 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

30 crédits

Year

2 3

Content:

| | | | | | |
|-------------|---|--|---------------------------------|---|---|
| ● LMECA1210 | Description and analysis of mechanisms | Francesco Contino Paul Fisette | FR [q2] [30h+30h] [5 Credits] 🌐 | X | |
| ● LMECA1901 | Continuum mechanics. | Philippe Chatelain Issam Doghri | FR [q2] [30h+30h] [5 Credits] 🌐 | X | |
| ● LMECA1100 | Deformable solid mechanics. | Issam Doghri | FR [q1] [30h+30h] [5 Credits] 🌐 | | X |
| ● LMECA1321 | Fluid mechanics and transfer phenomena. | | FR [q1] [30h+30h] [5 Credits] 🌐 | | X |
| ● LMECA1451 | Mechanical manufacturing. | Laurent Delannay Aude Simar | FR [q2] [30h+30h] [5 Credits] 🌐 | | X |
| ● LMECA1855 | Thermodynamics and energetics. | Yann Bartosiewicz Miltiadis Papalexandris | FR [q2] [30h+30h] [5 Credits] 🌐 | | X |

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

LMINOMECA - Information

Evaluation

The evaluation methods comply with the [Academic regulations and procedures](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

