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FILMECA - 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.

FILMECA - Teaching profile

Learning outcomes

Detailed programme

PROGRAMME BY SUBJECT

● Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

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

Year

2 3

Content:

● LMECA1210	Description et analyse des mécanismes	Francesco Contino Paul Fiset Thomas Servais (compensates Benoît Raucet)	30h+30h	5 Credits	q2	x	
● LMECA1901	Continuum mechanics.	Philippe Chatelain Issam Doghri	30h+30h	5 Credits	q2	x	
● LMECA1100	Deformable solid mechanics.	Issam Doghri	30h+30h	5 Credits	q1		x
● LMECA1321	Fluid mechanics and transfer phenomena.	Vincent Legat Grégoire Winckelmans	30h+30h	5 Credits	q1		x
● LMECA1451	Mechanical manufacturing.	Laurent Delannay Aude Simar	30h+30h	5 Credits	q2		x
● LMECA1855	Thermodynamics and energetics.	Yann Bartosiewicz Miltiadis Papalexandris	30h+30h	5 Credits	q2		x

COURSE PREREQUISITES

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "*In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?*"

FILMECA - Information

Access Requirements

Evaluation

The evaluation methods comply with the regulations concerning studies and exams (<https://uclouvain.be/fr/decouvrir/rgee.html>). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

