

MSE-667

CCMX Tribology and Surfaces Interactions

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Cursus	Sem.	Type
Materials Science and Engineering		Opt.

Language of teaching	English
Credits	2
Session	
Exam	Written
Workload	60h
Hours	29
Courses	21
Exercises	5
TP	3
Number of positions	30

Frequency

Every 2 years

Remark

23.08 - 27.08.2021 (the course will be given only if the sanitary situation allows to be in person)

Summary

This course is intended to give to the participants (graduates, researchers and industrial professionals) a solid background in tribology and surface interactions. It covers the fundamentals concepts of tribology including surfaces, contact mechanics, friction, lubrication and wear.

Content

Please find the content of this course on the following link :

<https://www.epfl.ch/research/domains/ccmx/courses-and-events/tribology-and-surfaces-interactions/>

Note

This course is open to participants with basic backgrounds in basics in material science and mechanics.

Keywords

Wear, friction, lubrication, surfaces, interfaces, coatings, ceramic, metals, polymers, composites, stresses, watches, implants, bearings, tribochemistry

Assessment methods

Group project

Resources**Websites**

- <https://www.epfl.ch/research/domains/ccmx/courses-and-events/tribology-and-surfaces-interactions/>