

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	Project report
Workload	60h
<b>Hours</b>	<b>29</b>
Lecture	21
Exercises	5
Practical work	3
<b>Number of positions</b>	<b>30</b>

**Frequency**

Every 2 years

**Remark**

Next time: July 3-7, 2023

**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/>