

MSE-713

## CCMX Advanced Course - From Additive Manufacturing to Field-assisted Sintering

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Cursus	Sem.	Type
Materials Science and Engineering		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Written
Workload	30h
<b>Hours</b>	<b>18</b>
Courses	17
Exercises	1
<b>Number of positions</b>	<b>30</b>

### Frequency

Every year

### Remark

From 18.06.2018 to 20.06.2018

### Summary

This course introduces the basics behind the processing and sintering of powders, highlighting, additive manufacturing, the use of field and pressure assisted sintering and describing different modelling aspects (MD/FEM).

### Content

<http://www.ccmx.ch/courses-and-events/article/2017/09/ccmx-advanced-course-from-additive-manufacturing-to-field-assisted-sintering/>

### Note

This course is open to participants with a basic background in materials science, chemistry and physics.

### Keywords

precipitation; inorganic powders; supersaturation; nucleation mechanism; growth mechanism; aggregation mechanism; characterisation; reactors; sol-gel routes; aqueous; non-aqueous; thermodynamic modelling, kinetic modelling

### Assessment methods

Written