

Cursus	Sem.	Туре	Language of	English
Materials Science and Engineering		Opt.	teaching	English
			Credits	1
			Session	
			Exam	Written
			Workload	30h
			Hours	18
			Courses	17
			Exercises	1
			Number of positions	30

Frequency

Every 2 years

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

Please find information on the link below.

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

Resources

Websites

• https://ccmx.epfl.ch/courses-and-events/advanced-course-from-additive-manufacturing-to-field-assisted-sintering-2019

