MSE-636(b)



# Scanning electron microscopy techniques (b)

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Sem.	Туре	Language of	Englisl
	Opt.	teaching	English
	Opt.	Credits	1
		Exam	Writter 30h
		Hours	15
		Lecture	12
		Exercises	1
		Practical work	2
		Number of positions	
	,	Opt.	Sem. Type Opt. Opt. Credits Session Exam Workload Hours Lecture Exercises Practical work Number of

# Frequency

Every year

### Summary

This intensive course is intended for researchers who envisage to use scanning electron microscopy techniques for their research or who want to understand how to interpret SEM images and analytical results presented in scientific publications.

### Content

This intensive course is intended for researchers who are potential new users of scanning electron microscopes. It will provide them with a basic understanding of the instruments, optics of SEM, the imaging modes, the associated analytical techniques EDS and EBSD, related theories of image formation. Demonstrations will be given on the microscopes.

2x Year Spring (b) and autumn (a).

## Keywords

SEM, FIB, ESEM

#### **Assessment methods**

Written

#### Resources

Websites

• https://www.epfl.ch/research/facilities/cime/teaching/doctoralschools/mse-636/