

Vacat ., Zhu Jieping				
Cursus	Sem.	Туре	Language of	English
Chemistry and Chemical Engineering		Opt.	teaching	LIIGIISII
			Credits	1
			Session	
			Exam	Project report
			Workload	30h
			Hours	28
			Lecture	14
			Project	14
			Number of	
			positions	

## Frequency

Every 3 years

Remark

From fall 2022 to spring 2023

#### Summary

Total synthesis, Natural product, Green chemistry, nantioselective synthesis, Organo-catalysis, Lewis acid, Transition-metal, Drug discovery.

### Content

- Natural product, modern synthetic tools
- C-C bond formation, C-heteroatom bond formation
- Enantioselective synthesis
- Lewis acid-catalyzed transformation
- Transition metal-catalyzed transformation
- Organocatalysis
- Green chemistry
- Drug development, Drug discovery
- Interface of organic chemistry/biology, organic chemistry/bioorganic chemistry

## Keywords

Total synthesis, Natural product, Green chemistry, Enantioselective synthesis, Organo-catalysis, Lewis acid, Transition-metal, Drug discover

#### **Learning Prerequisites**

Important concepts to start the course M2 level

# Assessment methods

Project report

Resources



• https://www.epfl.ch/schools/sb/research/isic/news-events/organic\_chemistry\_seminars/