

CH-640

Modern Organic chemistry-Highlights in the field

Vacat ., Zhu Jieping

Cursus	Sem.	Type
Chemistry and Chemical Engineering		Opt.

Language of teaching	English
Credits	1
Session	
Exam	Project report
Workload	30h
Hours	28
Courses	14
Project	14
Number of positions	

Frequency

Every 3 years

Remark

Next time Fall 25 to Spring 26

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

Websites

- https://www.epfl.ch/schools/sb/research/isic/news-events/organic_chemistry_seminars/