

CH-621(2) Perspectives in Modern Organic Chemistry (OCS) 2

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| Cursus | Sem. | Type |
|------------------------------------|------|------|
| Chemistry and Chemical Engineering | | Opt. |

| Language of teaching | English |
|----------------------|---------|
| Credits | 1 |
| Session | |
| Exam | Oral |
| Workload | 30h |
| Hours | 21 |
| Courses | 7 |
| Exercises | 14 |
| Number of positions | |

Frequency

Every year

Remark

Next time: Spring 2021

Summary

Total synthesis, Natural product, Green chemistry, Enantioselective 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 discovery

Learning Prerequisites

Important concepts to start the course M2 level

Assessment methods

Term paper

Resources

Websites

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

