

CH-621(1) Perspectives in Modern Organic Chemistry (OCS) 1

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Cursus	Sem.	Type
Chemistry and Chemical Engineering		Opt.

Language of English teaching Credits Session Term paper Exam Workload 30h Hours 21 Courses 7 Exercises 14 Number of positions

Frequency

Every year

Remark

Next time Fall 2022

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

Resources

Websites

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