

UE Organometallic catalysis

 ECTS
6 credits

 Component
UFR Chimie-
Biologie

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** YACH7U13

Presentation

Description

The purpose of this course is to teach students reaction involving organometallic species. It will include electronic structures of complexes, elementary organometallic reactions and then their use in synthesis (organo-lithium, -magnesium, -zinc, -copper/ hydrogenations/ cross coupling/metal-carbenes complexes/metal polyenes/ C-H activation).

Course parts

UE Organometallic catalysis - TD	Tutorials (TD)	20h
UE Organometallic catalysis - CM	Lectures (CM)	30h

Recommended prerequisites

Organic chemistry (bachelor program, CHI501 and CHI601)

Period : Semester 7

Skills

Knowledge of the typical reactivity and synthetic uses of the most representative organometallics reagents.

Bibliography

Details:

- I. Electronic structures of complexes
- II. Elementary organometallic reactions
- III. Hydrogenation reactions
- IV. Stoichiometric organometallics
- V. Cross-Coupling reactions
- VI. Metal-carbene/metal-polyene complexes.

Useful info

Contacts

Program director

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Place

> Grenoble

Campus

> Grenoble - University campus