

Name of the course	Modern trends in organic synthesis
Number of instruction hours	20
Outline of course/module content	Transition metal-catalyzed coupling reactions: Pd-, Ni- and Cu-catalyzed cross-coupling reactions; Asymmetric Allylic Alkylation; Metathesis reactions in organic chemistry: Types of metathesis reactions; Olefin metathesis; Alkane metathesis; Alkyne metathesis; Green organic chemistry methods: Implementation of microwaves in sustainable organic chemistry; Microwave assisted synthesis of heterocycles; Photochemical and photocatalytic organic synthesis; Solid phase organic synthesis
Description of instruction methods	Lectures, seminar, consultations
Description of course/module requirements	oral exam, seminar paper