

<b>Level:</b> Specialist academic studies of chemistry				
<b>Course title:</b> Special topics of organic synthesis				DSH-704
<b>Status:</b> elective				
<b>ECTS:</b> 15				
<b>Requirements:</b> Enrolment in doctoral studies				
<b>Learning objectives</b> The aim of the course is to provide students with aspects of modern multiphase organic synthesis, with special emphasis on the applicability of the method for routine use.				
<b>Learning outcomes</b> Capability of students to create multiphase synthesis of a desired product and make the critical analysis of the proposed solutions.				
<b>Syllabus</b> <i>Theoretical instruction</i> Configuration and reactivity. Conformations and reactivity. Stereoselective and stereospecific organic reactions. Enantioselective and diastereoselective syntheses. Reagents and catalysts for enantioselective syntheses. Catalytic reductions in presence of transition metal complexes. Olefin metathesis. New developments in asymmetric synthesis. Organic photochemistry.  <i>Practical instruction</i> Multistep synthesis of the selected products.				
<b>Weekly teaching load</b>				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	