

<b>Level:</b> bachelor				
<b>Course title:</b> Industrial Organic Chemistry			IHO-302	
<b>Status:</b> elective				
<b>ECTS:</b> 5				
<b>Requirements:</b> none				
<b>Learning objectives</b> Deepening knowledge of the basic raw materials and chemicals used in the process of organic chemical industry.				
<b>Learning outcomes</b> Students skilled for selection of raw materials and synthetic processes for the industrial production of fine and base chemicals.				
<b>Syllabus</b> <i>Theoretical instruction</i> Basic raw materials and products of industrial organic syntheses. Natural gas, coal, renewable raw materials. Development of technical processes for the production of basic chemicals. Synthesis gas, alkenes and aromatics. Olefin metathesis. Syntheses involving carbon monoxide. Oxidation products of ethylene. Alcohols. Vinyl-halogen and vinyl-oxygen compounds. Components for polyamides. Aromatics-production and conversion. Selected examples of technological process for the production of intermediates and fine chemicals.  <i>Practical instruction</i> Laboratory exercises will follow the lecture teaching material. Visit two factories from the surrounding area.				
<b>Weekly teaching load</b>				Other:
Lectures: 2	Exercises: 1	Other forms of teaching: 1	Student research:	