Level: PhD

Course title: Chemistry of Basic Organic and Petrochemical Synthesis (DSH-718)

Status: Elective

ECTS: 15

Requirements: None

Learning objectives

Providing students with detailed introduction to the basic organic and petrochemical synthesis, and basic chemicals that are interesting in industry.

Learning outcomes

Demonstrate knowledge of the problems of synthetic petrochemical processes.

Syllabus

Theoretical instruction

The theory of the process of basic organic and oil synthesis: alkanes, cycloalkanes, alkenes, alkynes, halogenated hydrocarbons. Aromatization of petroleum hydrocarbons. Chemistry and theory of synthesis petroleum carboxylic acids. Synthesis of acids derivatives -type: esters, amides, anhydrides, halides, halogen derivatives and other important industrial synthesis, such as condensation and oxosynthesis.

Practical instruction

Weekly teaching load				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	