

<b>Level:</b> specialist studies				
<b>Course title:</b> Modern concepts of synthesis of biologically active compounds				
<b>Status:</b> elective				
<b>ECTS:</b> 5				
<b>Requirements:</b> Teacher's analysis of knowledge about the course in Organic synthesis				
<b>Learning objectives</b> Concentrated knowledge about synthesis of biologically active compounds. Understanding structural characteristics of organic compounds and their biological activity. Planning synthesis and mechanisms of biological active compounds. Developing originality and creativity in the synthetic organic laboratory.				
<b>Learning outcomes</b> Demonstrate knowledge about synthesis of some compounds with biological activity. Formulate conclusions about possible products in chemical reaction. Correlation the structures of compounds with their biological activity. Demonstrate the ability to perform theoretical and experimental work independently or in a team.				
<b>Syllabus</b> <i>Theoretical instruction</i> Planning the multistage synthesis of biological active compounds using the important literature. Synthesis of some compounds with specific reagents and complex experimental techniques. Isolation and physico-chemical investigation of synthesized compounds. Analysing the structures of the synthesized compounds by IR, $^1\text{H}$ , $^{13}\text{C}$ NMR spectra.  <i>Practical instruction</i> Preparing some organic compounds with potential biological activity, synthesis and confirmation of the structures by spectroscopic data.				
<b>Weekly teaching load</b>				Other:
Lectures: 2	Exercises: /	Other forms of teaching: 2	Student research: /	/