

<b>Level:</b> master				
<b>Course title:</b> Synthesis of Biologically Active Molecules				
<b>Status:</b> obligatory				
<b>ECTS:</b> 7				
<b>Requirements:</b> -				
<b>Learning objectives</b> The course will introduce students to the new developments in synthesis of biologically active compounds.				
<b>Learning outcomes</b> Students will acquire the necessary theoretical and practical knowledge in the synthesis of biologically active molecules. Acquired knowledge will allow students to extend their knowledge of methods in organic synthesis and efficiently solve synthetic problems in the field of biologically active molecules; Capacity to select and apply synthetic procedures in order to solve synthetic problems in the domain of research work.				
<b>Syllabus</b> <i>Theoretical instruction</i> Synthesis of antiestrogens and antiandrogens and their applications in treating cancer. Synthesis of antitumor agents. Therapeutic agents based on the progestins and corticosteroids. Synthesis and properties. Synthesis and use of anabolic-androgenic steroids. Synthesis of penicillin, cephalosporins and antibacterial sulfonamides. Synthesis of antidepressant drugs and antidiabetic drugs. Synthesis of angiotensin converting enzyme inhibitors and related compounds.  <i>Practical instruction</i> Synthesis of the selected biologically active organic compounds and confirming their structures by spectroscopic methods.				
<b>Weekly teaching load</b>				Other:
Lectures: 3	Exercises: 2	Other forms of teaching:	Student research:	